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20

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25

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 <213> Homo sapien

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27

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<212> DNA
<213> Homo sapien

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 <211> 1229
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 <213> Homo sapien

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30

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31

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32

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 <213> Homo sapien

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33

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 <213> Homo sapien

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36

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 <213> Homo sapien

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37

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<213> Homo sapien

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38

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48

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<212> DNA
<213> Homo sapien

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 <211> 3462
 <212> DNA
 <213> Homo sapien

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52

agccaagatc atgccgctgc actccagcct gggagacaaa gt 3462

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 <212> DNA
 <213> Homo sapien

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 <211> 827
 <212> DNA
 <213> Homo sapien

<400> 37
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 <212> DNA
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55

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<213> Homo sapien
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<223> n=a, c, g or t
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<221> misc_feature
<222> (351)..(351)
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<223> n=a, c, g or t
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<223> n=a, c, g or t

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<211> 467

<212> DNA

<213> Homo sapien

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57

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<210> 41
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 <212> DNA
 <213> Homo sapien

<400> 41
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<210> 42
 <211> 1018
 <212> DNA
 <213> Homo sapien

<400> 42
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<210> 43
 <211> 1010
 <212> DNA
 <213> Homo sapien

<400> 43
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<210> 44
<211> 376
<212> DNA
<213> Homo sapien

<400> 44
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gctgaagact gaattg 376

<210> 45
<211> 917
<212> DNA
<213> Homo sapien

<400> 45
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917

<210> 46

<211> 4163

<212> DNA

<213> Homo sapien

<400> 46

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61

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62

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gaattcttgc gattccatct cta 4163

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<210> 47
<211> 464
<212> DNA
<213> Homo sapien

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<210> 48
<211> 806
<212> DNA
<213> Homo sapien

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<400> 48
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63

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<210> 49
<211> 743
<212> DNA
<213> Homo sapien

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<400> 49
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<210> 50
<211> 461
<212> DNA

64

<213> Homo sapien

<400> 50

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<210> 51

<211> 993

<212> DNA

<213> Homo sapien

<400> 51

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ctgctgggtg gccgagggca tgagggcaga caccacgtgt agccctaggg tggcagtggg      180
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65

<210> 52
 <211> 1468
 <212> DNA
 <213> Homo sapien

<400> 52
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88

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<210> 60
<211> 980
<212> DNA
<213> Homo sapien

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<400> 60
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gttcacctgg ggcagcacia cctccagaag gaggagggtc gtgagcagac ccggacagcc   180
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<210> 61
 <211> 420
 <212> DNA
 <213> Homo sapien

<400> 61
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 ttgaaatatt gtgactctgg gaatgacaac acctggtttg ttctctgttg tatccccagc 360
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<210> 62
 <211> 587
 <212> DNA
 <213> Homo sapien

<400> 62
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 ccaagactcc tcaggcagcg tgtgggtccc gcactctgcc ccatttccc cgatgtcccc 180
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<210> 63
 <211> 1940
 <212> DNA
 <213> Homo sapien

<400> 63
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 aattgctcca aatgccactt tttcagaacc tactagacaa gtggatctct ccagtctccc 180

90

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ataaactcat	ttctagcaga					1940

91

<210> 64
 <211> 801
 <212> DNA
 <213> Homo sapien

<400> 64
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 actgtcagaa tgaggagatc ctgaacagtc tcaagtatgt ccgtcctggg ggtggatacc 180
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 aagggcaggt gtggaaacgg c 801

<210> 65
 <211> 920
 <212> DNA
 <213> Homo sapien

<400> 65
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92

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acacacagat ctcctactcc atccagtcct gaggagcctt aggatgcagc atgccttcag 660
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agggcaggtg tggaaacggc 920

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<210> 66
<211> 922
<212> DNA
<213> Homo sapien

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<400> 66
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<210> 67
<211> 1326
<212> DNA
<213> Homo sapien

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<400> 67
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<210> 68
<211> 759
<212> DNA
<213> Homo sapien

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<400> 68
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<210> 69
 <211> 539
 <212> DNA
 <213> Homo sapien

<400> 69
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<210> 70
 <211> 1143
 <212> DNA
 <213> Homo sapien

<400> 70
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95

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aac	1143

<210> 71
 <211> 1019
 <212> DNA
 <213> Homo sapien

<400> 71	
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96

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<210> 72
 <211> 832
 <212> DNA
 <213> Homo sapien

<400> 72
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104

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105

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108

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109

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1459

<210> 81

<211> 1370

<212> DNA

<213> Homo sapien

<400> 81

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<210> 82

<211> 350

<212> DNA

<213> Homo sapien

110

<400> 82
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 <212> DNA
 <213> Homo sapien

<400> 83
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 <212> DNA
 <213> Homo sapien

<400> 84
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111

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<210> 85
<211> 1778
<212> DNA
<213> Homo sapien

<400> 85
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112

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<210> 86

<211> 766

113

<212> DNA

<213> Homo sapien

<400> 86

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<210> 87

<211> 1655

<212> DNA

<213> Homo sapien

<400> 87

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114

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<210> 88
<211> 735
<212> DNA
<213> Homo sapien

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115

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<210> 89
<211> 1596
<212> DNA
<213> Homo sapien

<400> 89
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116

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<210> 90
<211> 2391
<212> DNA
<213> Homo sapien

<400> 90
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117

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 <213> Homo sapien

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118

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 <211> 2617
 <212> DNA
 <213> Homo sapien

<400> 92
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120

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 <211> 2247
 <212> DNA
 <213> Homo sapien

<400> 93
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121

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<210> 94
<211> 1146
<212> DNA
<213> Homo sapien

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<400> 94
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ccatctgaca cctatgccta caggttactc agcggagggt gcagaagcaa gtacgcaaaa 720
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122

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<210> 95
<211> 600
<212> DNA
<213> Homo sapien

<220>
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<222> (222)..(222)
<223> n=a, c, g or t

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<400> 95
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<210> 96
<211> 1008
<212> DNA
<213> Homo sapien

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<400> 96
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123

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 ggacgagcgt tctcagaagg gtcgacttaa aaagggaaaa accacggagc gaatggctca 900
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<210> 97
 <211> 1699
 <212> DNA
 <213> Homo sapien

<400> 97
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124

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<210> 98
<211> 2788
<212> DNA
<213> Homo sapien

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<400> 98
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125

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126

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 <223> n=a, c, g or t

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127

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128

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129

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130

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<212> DNA
<213> Homo sapien

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131

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<211> 986

<212> DNA

<213> Homo sapien

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132

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 <213> Homo sapien

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 <212> DNA
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133

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136

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137

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142

<211> 2761
 <212> DNA
 <213> Homo sapien

<400> 114
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 aaaattcagg ataactctcc tgaggggtga gccaaagccct gccatgtagt gcacgcagga 180
 catcaacaaa cacagataac aggaaatgat ccattccctg tggtcactta ttctaaaggc 240
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143

tccttttcag ttaacattat aaaaagtaaa aaatgaaaat tttagaaatc ttgcattaga 1740
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<210> 115
 <211> 2879
 <212> DNA
 <213> Homo sapien

<400> 115
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 aaaattcagg ataactctcc tgaggggtga gccaaagcct gccatgtagt gcacgcagga 180
 catcaacaaa cacagataac aggaaatgat ccattccctg tggtcactta ttctaaaggc 240
 cccaaccttc aaagttcaag tagtgatatg gatgactcca cagaaaggga gcagtcacgc 300
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 ccacggaagg aaagcccctc tgtccgatcc tcaaagacg gaaagctgct ggctgcaacc 420
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144

ctgcaagggg acctggccag cctccgggca gagctgcagg gccaccacgc ggagaagctg	540
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agaagtact gaatacatc atactaatgt aatgtaattt ccctttattt cttgctcttc	2220
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145

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atgtcacata gcatgtgctc cttataaata tgttgatata tcagaagaca gcatcccggt 2400
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tccttcgctt tgcttgctct ttatgtcatc agttttaact gtttacttca tttaacagtt 2520
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atttaaaaag aagaagcgat aagtggagtc agtttcaatg ctaggtgggg tggttaatga 2820
tttttctggt gttgctgcta atgtggatta acaaataaaa acattcattg ccttttaaa 2879

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<210> 116
<211> 1075
<212> DNA
<213> Homo sapien

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<400> 116
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ctaagcgta cctctcttcc agcaccagc ccagtattga gatcgattct ctctatgaag 180
gaatcgactt ctatacctcc attaccctg cccgatttga agaactgaat gctgacctgt 240
tccgtggcac cctggacca gtagagaaag cccttcgaga tgccaaacta gacaagtcac 300
agattcatga tattgtcctg gttggtggtt ctactcgat cccaagatt cagaagcttc 360
tccaagactt cttcaatgga aaagaactga ataagagcat caaccctga tgacagctgt 420
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atgagaagca gagggacaag gtgtcatcca agaattcact tgagtcctat gccttcaaca 960
tgaaagcaac tgttgaagat gagaacttca ggcagattac ggtgaggcaa cagagktctg 1020
gcagkttatg aatatcactg ctgtagrtag ctccggagga ggatttgaca tcaca 1075

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146

<210> 117
 <211> 715
 <212> DNA
 <213> Homo sapien

<400> 117
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 gaaaaccaca cttctcaaac cttcactcaa cacttccttc cccaaagcca gaagatgcac 180
 aaggaggaaac atgaggtggc tgtgctgggg gcacccccca gcaccatcct tccaagggtcc 240
 accgtgatca acatccacag cgagacctcc gtgcccagacc atgtcgtctg gtccctgttc 300
 aacacctctc tcttgaactg gtgctgtctg ggcttcatac cattcgcta ctccgtgaag 360
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 aagtgcctga acatctgggc cctgattctg ggcatcctca tgaccattgg attcatcctg 480
 ttactggtat tcggctctgt gacagtctac catattatgt tacagataat acaggaaaaa 540
 cggggttact agtagccgcc catagcctgc aacctttgca ctccactgtg caatgctggc 600
 cctgcacgct ggggctgttg cccctgcccc cttggctcctg cccctagata cagcagttta 660
 taccacaca cctgtctaca gtgtcattca ataaagtga cgtgcttgtg aaaaa 715

<210> 118
 <211> 1377
 <212> DNA
 <213> Homo sapien

<400> 118
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 tgcaccagga gacactggga ggttttagtcc ccaaaccgc acagagcagg actgcagcct 120
 gaggaagag caaggatttc aggagagagg cctgcgacaa gtgaggtgag ggcttttggg 180
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 gccctcatct ggccccggcc aaatcccgat ttgacaaatg ccaggaaaag gaaactgttg 480
 agaaaaccga actactgggg aaaggagggg ctactgaga accatccag taaccggacc 540
 gccgctggtc ttcgctggac accatgaatc acactgtcca aaccttcttc tctcctgtca 600
 acagtggcca gcccccaac tatgagatgc acaaggagga acatgaggtg gctgtgctgg 660

147

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gggcaccccc cagcaccatc cttccaaggt ccaccgtgat caacatccac agcgagacct 720
ccgtgccccg ccatgtcgtc tggtcctgt tcaacaccct cttcttgaac tgggtgctgtc 780
tggtgcttcac agcattcgcc tactccgtga agtctaggga caggaagatg gttggcgacg 840
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gcaacctttg cactccactg tgcaatgctg gccctgcacg ctggggctgt tgcccctgcc 1080
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caataaagtg cacgtgcttg tgaaaaaaaa aamacacaca caacaacaaa caccgttgta 1200
ggcacagacg cactgaacaa gagtcataga gaacacacaa ggaatggcac ccagcgcgcg 1260
cccacgaaga gagcgacaag gacacacagg cggaacggag cgtgaacacc cagaggaaaa 1320
acaccggaga cacaacacaa ccggggcaga gagatatcca caccactag aacaacg 1377

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<210> 119
<211> 579
<212> DNA
<213> Homo sapien

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<400> 119
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cgggcgtggg ggaagcagga cacctggaac tgcggcaaag taggagaaga aatggggagg 120
actcgggtgg gggaggacgt cccggtggg atgaagtctg gtggtgggtc gtaagtttag 180
gagggtgactg catcctccag catctcaact ccgtctgtct actgtgtgag acttcggcgg 240
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ttgtttttcc gggctcaciaa tttccagcac aacatatgag caccaacggg gaaacgacga 540
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<210> 120
<211> 1018
<212> DNA
<213> Homo sapien

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<400> 120
gcccttagcg tggtcgcggc cgaggtagcg tgtcccgttc ttagtgctcg aatgtcccaa 60
cctgaagctg aagaagccgc cctgggttga catgccgtcg gccatgactg tgtatgctct 120

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148

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ggtaggtggtg tcttacttcc tcatcaccgg aggaataatt tatgatgtta ttgttgaacc 180
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ctacagagta aatggacaat atattatgga aggacttgca tccagcttcc tatttacaat 300
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agaatttttt ttctgtctgg cctattgcta taccaatgat gttgagtggc attttctttt 720
tagtttttca ttaaaatata ttccatatct acaactataa tatcaaataa agtgattatt 780
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ggtagctttgc ctttaactag agtgtgtgat ggtagattat ttcagatatg tatgtaaaac 960
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<210> 121
<211> 1041
<212> DNA
<213> Homo sapien

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<400> 121
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cccttgctgc caccaacatg gagactttgt accgtgtccc gttcttagtg ctggaatgtc 120
ccaacctgaa gctgaagaag ccgccctggg tgcacatgcc gtcggccatg actgtgaata 180
atztatgatg ttattgttga acctccaagt gtcggttcta tgactgatga acatgggcat 240
cagaggccag tagctttctt ggcttacaga gtaaattggac aatatattat ggaaggactt 300
gcatccagct tcctatttac aatgggaggt ttaggtttca taatcctgga ccgatcgaat 360
gcaccaaata tccaaaact caatagattc cttcttctgt tcattggatt cgtctgtgtc 420
ctattgagtt ttttcatggc tagagtattc atgagaatga aactgccggg ctatctgatg 480
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agaaatatct agtgaaaaaa caggaagcgt attgaagctt ggactagaat ttcttcttgg 660
tattaaagag acaagtttat cacagaattt tttttcctgc tggcctattg ctataccaat 720

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149

gatgttgagt ggcattttct ttttagtttt tcattaaaat atattccata tctacaacta 780
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 gacagttgat cagctttacc tatgggtgctt tgcctttaac tagagtgtgt gatggtagat 960
 tttttcagat atgtatgtaa aactgtttcc tgaacaataa gatgtatgaa cggagcagaa 1020
 ataaatactt tttctaatta a 1041

<210> 122
 <211> 916
 <212> DNA
 <213> Homo sapien

<400> 122
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 cccttgctgc caccaacatg gagactttgt accgtgtccc gttcttagtg ctgcaatgtc 120
 ccaacctgaa gctgaagaag ccgccctggt tgcacatgcc gtcggccatg actgtgtatg 180
 ctctgggtggt ggtgtcttac ttcctcatca ccggaggaat aatttatgat gttattgttg 240
 aacctccaag tgtcggttct atgactgatg aacatgggca tcagaggcca gtagctttct 300
 tggcctacag gggctatctg atgggttaga gtgcctttga gaagaaatca gtggatactg 360
 gatttgctcc tgtcaatgaa gttttaaagg ctgtaccaat cctctaatat gaaatgtgga 420
 aaagaatgaa gagcagcagt aaaagaaata tctagtgaaa aaacaggaag cgtattgaag 480
 cttggactag aattttcttct tggattataa gagacaagtt tatcacagaa ttttttttcc 540
 tgtcggccta ttgctatacc aatgatgttg agtggcattt tcttttttagt ttttcattaa 600
 aatatattcc atatctacaa ctataatct aaataaagtg attatttttt acaaccctct 660
 taacattttt tggagatgac atttctgatt ttcagaaatt aacataaaat ccagaagcaa 720
 gattccgtaa gctgagaact ctggacagtt gatcagcttt acctatgggtg ctttgccctt 780
 aactagagtg tgtgatggta gattattttca gatatgtatg taaaactgtt tcctgaacaa 840
 taagatgtat gaacggagca gaaataaata ctttttctaa ttaaaaaaaaa agaaggggcg 900
 cgccaagata ccccg 916

<210> 123
 <211> 1018
 <212> DNA
 <213> Homo sapien

<400> 123
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150

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cctgaagctg aagaagccgc cctgggtgca catgccgtcg gccatgactg tgtatgctct 120
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<210> 124
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<212> DNA
<213> Homo sapien

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151

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cgccaagata	ccccag					916

<210> 125
 <211> 762
 <212> DNA
 <213> Homo sapien

<400> 125						
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tcacaagtac	tttgagaagg	caggactcaa	atgatgccct	ggagatgtca	cagattcctg	660
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<210> 126
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 <212> DNA
 <213> Homo sapien

<400> 126						
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agratygggt	aaaagctttg	gttyctagwa	aaggtwagt	tgtgtgggtt	ttttaagaag	240
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152

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 aaacattaat gctaacactt ttt 563

<210> 127
 <211> 757
 <212> DNA
 <213> Homo sapien

<400> 127
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 <213> Homo sapien

<400> 128
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 aaccagaaag ggattggccg atccgttcaa cacaagcat acccaaagg aaagcttttg 240
 aaatcagcra aaaggaaatg caaccaacac atcctatcag actgggtctg gcccttaact 300
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153

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<210> 129
<211> 607
<212> DNA
<213> Homo sapien

<220>
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<223> n=a, c, g or t

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<210> 130
<211> 775
<212> DNA
<213> Homo sapien

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154

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<210> 131
<211> 3018
<212> DNA
<213> Homo sapien

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<400> 131
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155

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156

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<210> 132
 <211> 1896
 <212> DNA
 <213> Homo sapien

<400> 132
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<210> 133
 <211> 2919
 <212> DNA
 <213> Homo sapien

<400> 133
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161

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163

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 tgcctcctgc tcaaagtcaa ccagattggc tccgtgaccg agtctcttca ggcgtgcaag 240
 ctggcccagg ccaatgggtg gggcgctcatg gtgtctcatc gttcggggga gactgaagat 300
 accttcatcg ctgacctggt tgtggggctg tgcactgggc agatcaagac tggtgcccct 360
 tgccgatctg agcgcttggc caagtacaac cagctcctca gaattgaaga ggagctgggc 420
 agcaaggcta agtttgccgg caggaacttc agaaaccctc tggccaagta agctgtgggc 480
 aggcaagccc ttcggtcacc tggtggctac acagaccctc cccctcgtgt cagctcaggc 540
 agctcgaggc ccccgaccaa cacttgcagg ggtccctgct agttagcgcc ccaccgccgt 600
 ggagttcgta ccgcttccct agaacttcta cagaagccaa gctccctgga gccctgttgg 660
 cagctctagc tttgcagtcg tgtaattggc ccaagtcatt gtttttctcg cctcactttc 720
 caccaagtgt ctagagtcac gtgagcctcg tgtcatctcc ggggtggcca caggctagat 780
 ccccggtggt tttgtgctca aaataaaaag cctcagtgc ccatgagaa 829

<210> 141
 <211> 1313
 <212> DNA
 <213> Homo sapien

<400> 141
 gggaatgagt gacggctctc ccgacgaatg gcgaggcgga ctgacggggg cgtgccccgg 60
 aggcgggaag tgggtggggc tcgccttagc taggcaggaa gtcggcgcgg gcggcgcgga 120
 cagtatctgt gggatcccgg agcacggaga tctcgccggc tttacgttca cctcggtgtc 180
 tgcagcacc cccgcttcc ctcctaggcg acgagacca gtggctagaa gttcaccatg 240
 tctattctca agatccatgc caggagatc tttgactctc gcgggaatcc cactgttgag 300
 gttgatctct tcacctcaaa aggtctcttc agagctgctg tgcccagtgg tgcttcaact 360

167

```

ggtatctatg aggccctaga gctccgggac aatgataaga ctcgctatat ggggaagggg 420
aagccttaga acccacagcc catggcctcc ctgcttccag ccccatcctt ggccttgccc 480
agtectgtcc tctctgggtg gcacttgcac ttgcaggttt atggcaggta aacctgctgt 540
gacccatgat gttgatggaa gcagtgcacc accttggtga caggaaagtt ggtgtgtgga 600
ttccgggggtt cccgagcctg catgctctgg gtcgagagtt ccaatgcttg cttctattgc 660
agttttgtcc caatctgcga aatactcctt cacggttagg acaggaaccc aagcatgaga 720
acagggcctg ttaactaaag aaaagtttcc ccatctccca ggagggttct gtgggccctc 780
cagagatcat cagcctcttc acgggctaga aaggatccag ggaaggtcta accaatgacc 840
tgccctgaat ggtgagctgc aggtgtgtca tttagtgtga ttttctgtt gactgactca 900
taggggccct gctctgtggc agagctagcc tctggctgta ttcaaattga cttagtgtgt 960
gtgcaacatt gacctttcta gagatagaac atgtggccaa attacagaaa agcacatagg 1020
gctagatcac gcattctcag tggggcaccc ggaaaactcc aaaaaggctg cagggagggg 1080
acaatgatga aatcaggttg tgaaacactg ggctggtgtc gcagtgggtg tgctgggtgt 1140
tcagtccgc tttaatgctg taagaagcac tctacacaca cgaacatgtt accatttgac 1200
cgttgtttaa tggcgtagat ggggacttag cgggagcagg atgatgctgt gccttgatgg 1260
taatgagtgc tcagtaagta agcatttgtg gaagattgaa cgcattggccc ctg 1313

```

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<210> 142
<211> 331
<212> PRT
<213> Homo sapien

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```

<400> 142

```

```

Met Glu Asn Pro Ser Pro Ala Ala Ala Leu Gly Lys Ala Leu Cys Ala
1           5           10           15

```

```

Leu Leu Leu Ala Thr Leu Gly Ala Ala Gly Gln Pro Leu Gly Gly Glu
          20           25           30

```

```

Ser Ile Cys Ser Ala Arg Ala Pro Ala Lys Tyr Ser Ile Thr Phe Thr
          35           40           45

```

```

Gly Lys Trp Ser Gln Thr Ala Phe Pro Lys Gln Tyr Pro Leu Phe Arg
          50           55           60

```

```

Pro Pro Ala Gln Trp Ser Ser Leu Leu Gly Ala Ala His Ser Ser Asp
65           70           75           80

```

Tyr	Ser	Met	Trp	Arg	Lys	Asn	Gln	Tyr	Val	Ser	Asn	Gly	Leu	Arg	Asp	
				85					90					95		
Phe	Ala	Glu	Arg	Gly	Glu	Ala	Trp	Ala	Leu	Met	Lys	Glu	Ile	Glu	Ala	
			100					105					110			
Ala	Gly	Glu	Ala	Leu	Gln	Ser	Val	His	Ala	Val	Phe	Ser	Ala	Pro	Ala	
			115					120					125			
Val	Pro	Ser	Gly	Thr	Gly	Gln	Thr	Ser	Ala	Glu	Leu	Glu	Val	Gln	Arg	
			130					135					140			
Arg	His	Ser	Leu	Val	Ser	Phe	Val	Val	Arg	Ile	Val	Pro	Ser	Pro	Asp	
145					150					155					160	
Trp	Phe	Val	Gly	Val	Asp	Ser	Leu	Asp	Leu	Cys	Asp	Gly	Asp	Arg	Trp	
			165					170					175			
Arg	Glu	Gln	Ala	Ala	Leu	Asp	Leu	Tyr	Pro	Tyr	Asp	Ala	Gly	Thr	Asp	
			180					185					190			
Ser	Gly	Phe	Thr	Phe	Ser	Ser	Pro	Asn	Phe	Ala	Thr	Ile	Pro	Gln	Asp	
			195					200					205			
Thr	Val	Thr	Glu	Ile	Thr	Ser	Ser	Ser	Pro	Ser	His	Pro	Ala	Asn	Ser	
			210					215					220			
Phe	Tyr	Tyr	Pro	Arg	Leu	Lys	Ala	Leu	Pro	Pro	Ile	Ala	Arg	Val	Thr	
225					230					235					240	
Leu	Val	Arg	Leu	Arg	Gln	Ser	Pro	Arg	Ala	Phe	Ile	Pro	Pro	Ala	Pro	
			245					250					255			
Val	Leu	Pro	Ser	Arg	Asp	Asn	Glu	Ile	Val	Asp	Ser	Ala	Ser	Val	Pro	
			260					265					270			
Glu	Thr	Pro	Leu	Asp	Cys	Glu	Val	Ser	Leu	Trp	Ser	Ser	Trp	Gly	Leu	
			275					280					285			
Cys	Gly	Gly	His	Cys	Gly	Arg	Leu	Gly	Thr	Lys	Ser	Arg	Thr	Arg	Tyr	
			290					295					300			
Val	Arg	Val	Gln	Pro	Ala	Asn	Asn	Gly	Ser	Pro	Cys	Pro	Glu	Leu	Glu	
305					310					315					320	
Glu	Glu	Ala	Glu	Cys	Val	Pro	Asp	Asn	Cys	Val						

169

325

330

<210> 143
 <211> 518
 <212> PRT
 <213> Homo sapien

<400> 143

Arg Cys Asp Ser Cys Thr Leu Phe Ala Val Glu Ser Ile Leu Gln Gly
 1 5 10 15

His Ser Pro Glu Glu Arg Met Lys Gly Gly Ser Arg Gln Tyr Leu Arg
 20 25 30

Asp Ser Val Leu Ser Asp Thr His Pro Gln Val Thr Cys Val Ser Gln
 35 40 45

Leu Thr Arg Lys Leu Ala Arg Met Ala Leu Cys Gly His Arg Val Thr
 50 55 60

Ala Met Leu Gln Gly Thr Cys Gly Gly Leu Gly Thr Gln Pro Pro His
 65 70 75 80

Ser Ser Gly Leu Cys Ser Gln Ala Pro Trp Pro Gly Ala Gly Gln Val
 85 90 95

Leu Met Ser Ile Leu Leu Ala Leu Pro Gly Thr Cys Trp Thr Gly Gln
 100 105 110

Ala Gly Asn Ala Gly Ala Glu Trp Gln Phe Pro Pro Tyr Ser Ala Gly
 115 120 125

Trp Gln Pro Leu Ala Ser Arg Ser Ala Cys Gly Leu Glu Arg Ile Ala
 130 135 140

Gly Ser Trp Val Arg Ala Cys Trp Leu Trp Val Ser Gly Ser His Leu
 145 150 155 160

Ile Trp Val Trp Asp Ser Gln Cys Arg Pro Gln Thr Thr Ala Asp Phe
 165 170 175

Arg Leu Ser Arg Gly Gly Thr Gly Ala His Gln Pro Gly His Gly Pro
 180 185 190

Arg Arg Pro Pro Pro Ser Met Leu Leu Ala Gly Val Glu Ala Gly Thr
 195 200 205

170

Gly Pro Pro His Thr Cys Pro Pro Ser His Val Val Gly Thr Asp Val
 210 215 220

Val Leu Arg Ser Ser Ser Asn Tyr Lys Leu Thr Val Ser Arg Pro Trp
 225 230 235 240

Lys Gln Gly Pro Gly Gln Val Arg Gln Glu Ala Ala Trp Leu Ala Gly
 245 250 255

Thr Thr Pro Gln Thr Glu Thr Val Pro Ser Pro Gly Ser Leu Leu Ile
 260 265 270

Trp Asp Glu Leu Gly Leu Pro Val Pro Ala Ser Val Leu Pro Leu Pro
 275 280 285

Ser Ala Gly Leu Gly Ser Ser Leu Ile Cys Pro Arg Gly Cys Pro Ile
 290 295 300

Pro Ser Arg Cys Pro Arg Ala Thr Tyr Pro Thr Gly Arg Arg Ala Ser
 305 310 315 320

Thr Val Arg Gly Val Gln Leu Val Trp Arg Glu Glu Pro Leu Val Gly
 325 330 335

Arg Gly Ser Arg Glu Val Arg Phe Ala Pro His Leu Gly Ala Leu Gly
 340 345 350

His Ser Gly Gln Gly Ser Thr Trp Pro Val Pro Trp Val Cys His Asp
 355 360 365

Val Gly Val Pro Pro Pro Gln Gly Leu Glu Arg Gln Leu Arg Leu Leu
 370 375 380

Arg Arg Asn Ala Gln Leu Gln Ser Leu Gly Cys Val Arg Gly Cys Tyr
 385 390 395 400

Gly Ala Ile Pro Ser Cys Arg Ser Leu Cys Asp Cys Ala Glu Lys Arg
 405 410 415

Lys Cys Pro Arg Arg Val Gly Val Ala Ser Asp Glu Cys Thr Arg Trp
 420 425 430

Trp Glu Val Ala Ser Val Cys Thr Lys Arg Leu Phe Thr Arg Ala Phe
 435 440 445

171

Thr Ser Val Ser Pro Leu Leu Gly Pro Val Pro Glu Thr Pro Leu Asp
 450 455 460

Cys Glu Val Ser Leu Trp Ser Ser Trp Gly Leu Cys Gly Gly His Cys
 465 470 475 480

Gly Arg Leu Gly Thr Lys Ser Arg Thr Arg Tyr Val Arg Val Gln Pro
 485 490 495

Ala Asn Asn Gly Ser Pro Cys Pro Glu Leu Glu Glu Glu Ala Glu Cys
 500 505 510

Val Pro Asp Asn Cys Val
 515

<210> 144
 <211> 298
 <212> PRT
 <213> Homo sapien

<400> 144

Met Glu Asn Pro Ser Pro Ala Ala Ala Leu Gly Lys Ala Leu Cys Ala
 1 5 10 15

Leu Leu Leu Ala Thr Leu Gly Ala Ala Gly Gln Pro Leu Gly Gly Glu
 20 25 30

Ser Ile Cys Ser Ala Arg Ala Pro Ala Lys Tyr Ser Ile Thr Phe Thr
 35 40 45

Gly Lys Trp Ser Gln Thr Ala Phe Pro Lys Gln Tyr Pro Leu Phe Arg
 50 55 60

Pro Pro Ala Gln Trp Ser Ser Leu Leu Gly Ala Ala His Ser Ser Asp
 65 70 75 80

Tyr Ser Met Trp Arg Lys Asn Gln Tyr Val Ser Asn Gly Leu Arg Asp
 85 90 95

Phe Ala Glu Arg Gly Glu Ala Trp Ala Leu Met Lys Glu Ile Glu Ala
 100 105 110

Ala Gly Glu Ala Leu Gln Ser Val His Glu Val Phe Ser Ala Pro Ala
 115 120 125

Val Pro Ser Gly Thr Gly Gln Thr Ser Ala Glu Leu Glu Val Gln Arg
 130 135 140

172

Arg His Ser Leu Val Ser Phe Val Val Arg Ile Val Pro Ser Pro Asp
145 150 155 160

Trp Phe Val Gly Val Asp Ser Leu Asp Leu Cys Asp Gly Asp Arg Trp
165 170 175

Arg Glu Gln Ala Ala Leu Asp Leu Tyr Pro Tyr Asp Ala Gly Thr Asp
180 185 190

Ser Gly Phe Thr Phe Ser Ser Pro Asn Phe Ala Thr Ile Pro Gln Asp
195 200 205

Thr Val Thr Glu Ile Thr Ser Ser Ser Pro Ser His Pro Ala Asn Ser
210 215 220

Phe Tyr Tyr Pro Arg Leu Lys Ala Leu Pro Pro Ile Ala Arg Val Thr
225 230 235 240

Leu Leu Arg Leu Arg Gln Ser Pro Arg Ala Phe Ile Pro Pro Ala Pro
245 250 255

Val Leu Pro Ser Arg Asp Asn Glu Ile Val Asp Ser Ala Ser Gly Asn
260 265 270

Gly His Thr Gly His Met Gly His Thr Ala Ala Pro Asn Pro Ala Thr
275 280 285

Gly Arg Pro Pro Asn Pro Asn Leu Arg Leu
290 295

<210> 145
<211> 504
<212> PRT
<213> Homo sapien

<400> 145

Arg Cys Asp Ser Cys Thr Leu Phe Ala Val Glu Ser Ile Leu Gln Gly
1 5 10 15

His Ser Pro Glu Glu Arg Met Lys Gly Gly Ser Arg Gln Tyr Leu Arg
20 25 30

Asp Ser Val Leu Ser Asp Thr His Pro Gln Val Thr Cys Val Ser Gln
35 40 45

173

Leu Thr Arg Lys Leu Ala Arg Met Ala Leu Cys Gly His Arg Val Thr
 50 55 60

Ala Met Leu Gln Gly Thr Cys Gly Gly Leu Gly Thr Gln Pro Pro His
 65 70 75 80

Ser Ser Gly Leu Cys Ser Gln Ala Pro Trp Pro Gly Ala Gly Gln Val
 85 90 95

Leu Met Ser Ile Leu Leu Ala Leu Pro Gly Thr Cys Trp Thr Gly Gln
 100 105 110

Ala Gly Asn Ala Gly Ala Glu Trp Gln Phe Pro Pro Tyr Ser Ala Gly
 115 120 125

Trp Gln Pro Leu Ala Ser Arg Ser Ala Cys Gly Leu Glu Arg Ile Ala
 130 135 140

Gly Ser Trp Val Arg Ala Cys Trp Leu Trp Val Ser Gly Ser His Leu
 145 150 155 160

Ile Trp Val Trp Asp Ser Gln Cys Arg Pro Gln Thr Thr Ala Asp Phe
 165 170 175

Arg Leu Ser Arg Gly Gly Thr Gly Ala His Gln Pro Gly His Gly Pro
 180 185 190

Arg Arg Pro Pro Pro Ser Met Leu Leu Ala Gly Val Glu Ala Gly Thr
 195 200 205

Gly Pro Pro His Thr Cys Pro Pro Ser His Val Val Gly Thr Asp Val
 210 215 220

Val Leu Arg Ser Ser Ser Asn Tyr Lys Leu Thr Val Ser Arg Pro Trp
 225 230 235 240

Lys Gln Gly Pro Gly Gln Val Arg Gln Glu Ala Ala Trp Leu Ala Gly
 245 250 255

Thr Thr Pro Gln Thr Glu Thr Val Pro Ser Pro Gly Ser Leu Leu Ile
 260 265 270

Trp Asp Glu Leu Gly Leu Pro Val Pro Ala Ser Val Leu Pro Leu Pro
 275 280 285

Ser Ala Gly Leu Gly Ser Ser Leu Ile Cys Pro Arg Gly Cys Pro Ile

174

290

295

300

Pro Ser Arg Cys Pro Arg Ala Thr Tyr Pro Thr Gly Arg Arg Ala Ser
 305 310 315 320

Thr Val Arg Gly Val Gln Leu Val Trp Arg Glu Glu Pro Leu Val Gly
 325 330 335

Arg Gly Ser Arg Glu Val Arg Phe Ala Pro His Leu Gly Ala Leu Gly
 340 345 350

His Ser Gly Gln Gly Ser Thr Trp Pro Val Pro Trp Ala Arg Arg Gly
 355 360 365

Ile Lys Ser Ala Val Ala Lys Gln Lys Gln Tyr Cys Arg Gly Arg Val
 370 375 380

Gly Arg Asp Cys Ala Met Ser Ser Glu Gln Glu Ala Gly His Gly Glu
 385 390 395 400

Lys Gly Gly Arg Arg Thr Glu Pro Ala Val Pro Ala Glu Gly Pro Glu
 405 410 415

Trp Ala Val Gly Thr Glu His Arg Pro Pro Pro Thr Arg Val Ser Pro
 420 425 430

Val Thr Ser Gly Phe Pro Arg Ala Glu Ala Gly Met Gly Met Trp Arg
 435 440 445

Leu Ala Pro Arg Arg Leu Arg Gln Val His Ala Lys Pro Ala Trp Leu
 450 455 460

Ser Ser Gly Phe Leu Leu Thr Arg Trp Met Pro Val Pro Arg Pro Pro
 465 470 475 480

Asp Arg Ala Leu Gln His Trp Arg Gly Leu Trp Trp Gly Pro Arg Cys
 485 490 495

Arg Thr Gly Thr Ala Ser Ala His
 500

<210> 146

<211> 829

<212> PRT

<213> Homo sapien

<400> 146

175

Met Glu Asn Pro Ser Pro Ala Ala Ala Leu Gly Lys Ala Leu Cys Ala
 1 5 10 15
 Leu Leu Leu Ala Thr Leu Gly Ala Ala Gly Gln Pro Leu Gly Gly Glu
 20 25 30
 Ser Ile Cys Ser Ala Arg Ala Pro Ala Lys Tyr Ser Ile Thr Phe Thr
 35 40 45
 Gly Lys Trp Ser Gln Thr Ala Phe Pro Lys Gln Tyr Pro Leu Phe Arg
 50 55 60
 Pro Pro Ala Gln Trp Ser Ser Leu Leu Gly Ala Ala His Ser Ser Asp
 65 70 75 80
 Tyr Ser Met Trp Arg Lys Asn Gln Tyr Val Ser Asn Gly Leu Arg Asp
 85 90 95
 Phe Ala Glu Arg Gly Glu Ala Trp Ala Leu Met Lys Glu Ile Glu Ala
 100 105 110
 Ala Gly Glu Ala Leu Gln Ser Val His Glu Val Phe Ser Ala Pro Ala
 115 120 125
 Val Pro Ser Gly Thr Gly Gln Thr Ser Ala Glu Leu Glu Val Gln Arg
 130 135 140
 Arg His Ser Leu Val Ser Phe Val Val Arg Ile Val Pro Ser Pro Asp
 145 150 155 160
 Trp Phe Val Gly Val Asp Ser Leu Asp Leu Cys Asp Gly Asp Arg Trp
 165 170 175
 Arg Glu Gln Ala Ala Leu Asp Leu Tyr Pro Tyr Asp Ala Gly Thr Asp
 180 185 190
 Ser Gly Phe Thr Phe Ser Ser Pro Asn Phe Ala Thr Ile Pro Gln Asp
 195 200 205
 Thr Val Thr Glu Ile Thr Ser Ser Ser Pro Ser His Pro Ala Asn Ser
 210 215 220
 Phe Tyr Tyr Pro Arg Leu Lys Ala Leu Pro Pro Ile Ala Arg Val Thr
 225 230 235 240

Leu	Leu	Arg	Leu	Arg	Gln	Ser	Pro	Arg	Ala	Phe	Ile	Pro	Pro	Ala	Pro
				245					250					255	
Val	Leu	Pro	Ser	Arg	Asp	Asn	Glu	Ile	Val	Asp	Ser	Ala	Ser	Gly	Asn
			260					265					270		
Gly	His	Thr	Gly	His	Met	Gly	His	Thr	Ala	Ala	Pro	Asn	Pro	Ala	Thr
		275					280					285			
Gly	Arg	Pro	Pro	Asn	Pro	Asn	Gln	Gly	Ser	Glu	Lys	Phe	Gln	Val	Gly
	290					295					300				
Ile	Arg	Ser	Ala	Tyr	Cys	Lys	Met	Val	Pro	Arg	Arg	Phe	Arg	Ile	Leu
305					310					315					320
Leu	Ile	His	Thr	Leu	Lys	Met	Asp	Ser	Cys	Thr	Leu	Phe	Ala	Val	Glu
				325					330					335	
Ser	Ile	Leu	Gln	Gly	His	Ser	Pro	Glu	Glu	Arg	Met	Lys	Gly	Gly	Ser
			340					345					350		
Arg	Gln	Tyr	Leu	Arg	Asp	Ser	Val	Leu	Ser	Asp	Thr	His	Pro	Gln	Val
		355					360					365			
Thr	Cys	Val	Ser	Gln	Leu	Thr	Arg	Lys	Leu	Ala	Arg	Met	Ala	Leu	Cys
	370					375					380				
Gly	His	Arg	Val	Thr	Ala	Met	Leu	Gln	Gly	Thr	Cys	Gly	Gly	Leu	Gly
385					390					395					400
Thr	Gln	Pro	Pro	His	Ser	Ser	Gly	Leu	Cys	Ser	Gln	Ala	Pro	Trp	Pro
				405					410					415	
Gly	Ala	Gly	Gln	Val	Leu	Met	Ser	Ile	Leu	Leu	Ala	Leu	Pro	Gly	Thr
			420					425					430		
Cys	Trp	Thr	Gly	Gln	Ala	Gly	Asn	Ala	Gly	Ala	Glu	Trp	Gln	Phe	Pro
		435					440					445			
Pro	Tyr	Ser	Ala	Gly	Trp	Gln	Pro	Leu	Ala	Ser	Arg	Ser	Ala	Cys	Gly
	450					455					460				
Leu	Glu	Arg	Ile	Ala	Gly	Ser	Trp	Val	Arg	Ala	Cys	Trp	Leu	Trp	Val
465					470					475					480
Ser	Gly	Ser	His	Leu	Ile	Trp	Val	Trp	Asp	Ser	Gln	Cys	Arg	Pro	Gln

177

485

490

495

Thr Thr Ala Asp Phe Arg Leu Ser Arg Gly Gly Thr Gly Ala His Gln
 500 505 510

Pro Gly His Gly Pro Arg Arg Pro Pro Pro Ser Met Leu Leu Ala Gly
 515 520 525

Val Glu Ala Gly Thr Gly Pro Pro His Thr Cys Pro Pro Ser His Val
 530 535 540

Val Gly Thr Asp Val Val Leu Arg Ser Ser Ser Asn Tyr Lys Leu Thr
 545 550 555 560

Val Ser Arg Pro Trp Lys Gln Gly Pro Gly Gln Val Arg Gln Glu Ala
 565 570 575

Ala Trp Leu Ala Gly Thr Thr Pro Gln Thr Glu Thr Val Pro Ser Pro
 580 585 590

Gly Ser Leu Leu Ile Trp Asp Glu Leu Gly Leu Pro Val Pro Ala Ser
 595 600 605

Val Leu Pro Leu Pro Ser Ala Gly Leu Gly Ser Ser Leu Ile Cys Pro
 610 615 620

Arg Gly Cys Pro Ile Pro Ser Arg Cys Pro Arg Ala Thr Tyr Pro Thr
 625 630 635 640

Gly Arg Arg Ala Ser Thr Val Arg Gly Val Gln Leu Val Trp Arg Glu
 645 650 655

Glu Pro Leu Val Gly Arg Gly Ser Arg Glu Val Arg Phe Ala Pro His
 660 665 670

Leu Gly Ala Leu Gly His Ser Gly Gln Gly Ser Thr Trp Pro Val Pro
 675 680 685

Trp Ala Arg Arg Gly Ile Lys Ser Ala Val Ala Lys Gln Lys Gln Tyr
 690 695 700

Cys Arg Gly Arg Val Gly Arg Asp Cys Ala Met Ser Ser Glu Gln Glu
 705 710 715 720

Ala Gly His Gly Glu Lys Gly Gly Arg Arg Thr Glu Pro Ala Val Pro
 725 730 735

178

Ala Glu Gly Pro Glu Trp Ala Val Gly Thr Glu His Arg Pro Pro Pro
 740 745 750

Thr Arg Val Ser Pro Val Thr Ser Gly Phe Pro Arg Ala Glu Ala Gly
 755 760 765

Met Gly Met Trp Arg Leu Ala Pro Arg Arg Leu Arg Gln Val His Ala
 770 775 780

Lys Pro Ala Trp Leu Ser Ser Gly Phe Leu Leu Thr Arg Trp Met Pro
 785 790 795 800

Val Pro Arg Pro Pro Asp Arg Ala Leu Gln His Trp Arg Gly Leu Trp
 805 810 815

Trp Gly Pro Arg Cys Arg Thr Gly Thr Ala Ser Ala His
 820 825

<210> 147
 <211> 504
 <212> PRT
 <213> Homo sapien

<400> 147

Arg Cys Asp Ser Cys Thr Leu Phe Ala Val Glu Ser Ile Leu Gln Gly
 1 5 10 15

His Ser Pro Glu Glu Arg Met Lys Gly Gly Ser Arg Gln Tyr Leu Arg
 20 25 30

Asp Ser Val Leu Ser Asp Thr His Pro Gln Val Thr Cys Val Ser Gln
 35 40 45

Leu Thr Arg Lys Leu Ala Arg Met Ala Leu Cys Gly His Arg Val Thr
 50 55 60

Ala Met Leu Gln Gly Thr Cys Gly Gly Leu Gly Thr Gln Pro Pro His
 65 70 75 80

Ser Ser Gly Leu Cys Ser Gln Ala Pro Trp Pro Gly Ala Gly Gln Val
 85 90 95

Leu Met Ser Ile Leu Leu Ala Leu Pro Gly Thr Cys Trp Thr Gly Gln
 100 105 110

179

Ala Gly Asn Ala Gly Ala Glu Trp Gln Phe Pro Pro Tyr Ser Ala Gly
 115 120 125

Trp Gln Pro Leu Ala Ser Arg Ser Ala Cys Gly Leu Glu Arg Ile Ala
 130 135 140

Gly Ser Trp Val Arg Ala Cys Trp Leu Trp Val Ser Gly Ser His Leu
 145 150 155 160

Ile Trp Val Trp Asp Ser Gln Cys Arg Pro Gln Thr Thr Ala Asp Phe
 165 170 175

Arg Leu Ser Arg Gly Gly Thr Gly Ala His Gln Pro Gly His Gly Pro
 180 185 190

Arg Arg Pro Pro Pro Ser Met Leu Leu Ala Gly Val Glu Ala Gly Thr
 195 200 205

Gly Pro Pro His Thr Cys Pro Pro Ser His Val Val Gly Thr Asp Val
 210 215 220

Val Leu Arg Ser Ser Ser Asn Tyr Lys Leu Thr Val Ser Arg Pro Trp
 225 230 235 240

Lys Gln Gly Pro Gly Gln Val Arg Gln Glu Ala Ala Trp Leu Ala Gly
 245 250 255

Thr Thr Pro Gln Thr Glu Thr Val Pro Ser Pro Gly Ser Leu Leu Ile
 260 265 270

Trp Asp Glu Leu Gly Leu Pro Val Pro Ala Ser Val Leu Pro Leu Pro
 275 280 285

Ser Ala Gly Leu Gly Ser Ser Leu Ile Cys Pro Arg Gly Cys Pro Ile
 290 295 300

Pro Ser Arg Cys Pro Arg Ala Thr Tyr Pro Thr Gly Arg Arg Ala Ser
 305 310 315 320

Thr Val Arg Gly Val Gln Leu Val Trp Arg Glu Glu Pro Leu Val Gly
 325 330 335

Arg Gly Ser Arg Glu Val Arg Phe Ala Pro His Leu Gly Ala Leu Gly
 340 345 350

His Ser Gly Gln Gly Ser Thr Trp Pro Val Pro Trp Ala Arg Arg Gly

180

355 360 365

Ile Lys Ser Ala Val Ala Lys Gln Lys Gln Tyr Cys Arg Gly Arg Val
 370 375 380

Gly Arg Asp Cys Ala Met Ser Ser Glu Gln Glu Ala Gly His Gly Glu
 385 390 395 400

Lys Gly Gly Arg Arg Thr Glu Pro Ala Val Pro Ala Glu Gly Pro Glu
 405 410 415

Trp Ala Val Gly Thr Glu His Arg Pro Pro Pro Thr Arg Val Ser Pro
 420 425 430

Val Thr Ser Gly Phe Pro Arg Ala Glu Ala Gly Met Gly Met Trp Arg
 435 440 445

Leu Ala Pro Arg Arg Leu Arg Gln Val His Ala Lys Pro Ala Trp Leu
 450 455 460

Ser Ser Gly Phe Leu Leu Thr Arg Trp Met Pro Val Pro Arg Pro Pro
 465 470 475 480

Asp Arg Ala Leu Gln His Trp Arg Gly Leu Trp Trp Gly Pro Arg Cys
 485 490 495

Arg Thr Gly Thr Ala Ser Ala His
 500

<210> 148
 <211> 935
 <212> PRT
 <213> Homo sapien

<400> 148

Gly Gly Ile Gly Arg Gly Asp Lys Glu Arg Gly Ala Ala Ala Leu Pro
 1 5 10 15

Gly Glu Glu Gly Asp Pro Thr Arg Gly Arg Ser Leu Gly Arg Ala Ser
 20 25 30

Trp Glu Ser Gly Ser Pro Arg Arg Pro Arg Ser Pro Phe Ser Ser Phe
 35 40 45

Leu Pro Arg Pro Ile Cys Leu Ser Leu Glu Ala Arg Pro Cys Ser Ile
 50 55 60

181

Glu Asp Arg Arg Asn Trp Ser Leu Ile Gly Arg Pro Gly Ala Pro Ala
65 70 75 80

Ser Gly Leu Asn Arg Ser Ser Gly Leu Trp Leu Gly Pro Asp Arg Cys
85 90 95

Arg Pro Arg Ser Arg Cys Ser Cys Arg Val Met Glu Asn Pro Ser Pro
100 105 110

Ala Ala Ala Leu Gly Lys Ala Leu Cys Ala Leu Leu Leu Ala Thr Leu
115 120 125

Gly Ala Ala Gly Gln Pro Leu Gly Gly Glu Ser Ile Cys Ser Ala Arg
130 135 140

Ala Pro Ala Lys Tyr Ser Ile Thr Phe Thr Gly Lys Trp Ser Gln Thr
145 150 155 160

Ala Phe Pro Lys Gln Tyr Pro Leu Phe Arg Pro Pro Ala Gln Trp Ser
165 170 175

Ser Leu Leu Gly Ala Ala His Ser Ser Asp Tyr Ser Met Trp Arg Lys
180 185 190

Asn Gln Tyr Val Ser Asn Gly Leu Arg Asp Phe Ala Glu Arg Gly Glu
195 200 205

Ala Trp Ala Leu Met Lys Glu Ile Glu Ala Ala Gly Glu Ala Leu Gln
210 215 220

Ser Val His Glu Val Phe Ser Ala Pro Ala Val Pro Ser Gly Thr Gly
225 230 235 240

Gln Thr Ser Ala Glu Leu Glu Val Gln Arg Arg His Ser Leu Val Ser
245 250 255

Phe Val Val Arg Ile Val Pro Ser Pro Asp Trp Phe Val Gly Val Asp
260 265 270

Ser Leu Asp Leu Cys Asp Gly Asp Arg Trp Arg Glu Gln Ala Ala Leu
275 280 285

Asp Leu Tyr Pro Tyr Asp Ala Gly Thr Asp Ser Gly Phe Thr Phe Ser
290 295 300

182

Ser Pro Asn Phe Ala Thr Ile Pro Gln Asp Thr Val Thr Glu Ile Thr
 305 310 315 320

Ser Ser Ser Pro Ser His Pro Ala Asn Ser Phe Tyr Tyr Pro Arg Leu
 325 330 335

Lys Ala Leu Pro Pro Ile Ala Arg Val Thr Leu Leu Arg Leu Arg Gln
 340 345 350

Ser Pro Arg Ala Phe Ile Pro Pro Ala Pro Val Leu Pro Ser Arg Asp
 355 360 365

Asn Glu Ile Val Asp Ser Ala Ser Gly Asn Gly His Thr Gly His Met
 370 375 380

Gly His Thr Ala Ala Pro Asn Pro Ala Thr Gly Arg Pro Pro Asn Pro
 385 390 395 400

Asn Gln Gly Ser Glu Lys Phe Gln Val Gly Ile Arg Ser Ala Tyr Cys
 405 410 415

Lys Met Val Pro Arg Arg Phe Arg Ile Leu Leu Ile His Thr Leu Lys
 420 425 430

Met Asp Ser Cys Thr Leu Phe Ala Val Glu Ser Ile Leu Gln Gly His
 435 440 445

Ser Pro Glu Glu Arg Met Lys Gly Gly Ser Arg Gln Tyr Leu Arg Asp
 450 455 460

Ser Val Leu Ser Asp Thr His Pro Gln Val Thr Cys Val Ser Gln Leu
 465 470 475 480

Thr Arg Lys Leu Ala Arg Met Ala Leu Cys Gly His Arg Val Thr Ala
 485 490 495

Met Leu Gln Gly Thr Cys Gly Gly Leu Gly Thr Gln Pro Pro His Ser
 500 505 510

Ser Gly Leu Cys Ser Gln Ala Pro Trp Pro Gly Ala Gly Gln Val Leu
 515 520 525

Met Ser Ile Leu Leu Ala Leu Pro Gly Thr Cys Trp Thr Gly Gln Ala
 530 535 540

Gly Asn Ala Gly Ala Glu Trp Gln Phe Pro Pro Tyr Ser Ala Gly Trp

183															
545				550				555				560			
Gln	Pro	Leu	Ala	Ser 565	Arg	Ser	Ala	Cys	Gly 570	Leu	Glu	Arg	Ile	Ala 575	Gly
Ser	Trp	Val	Arg 580	Ala	Cys	Trp	Leu	Trp 585	Val	Ser	Gly	Ser	His 590	Leu	Ile
Trp	Val	Trp 595	Asp	Ser	Gln	Cys	Arg 600	Pro	Gln	Thr	Thr	Ala 605	Asp	Phe	Arg
Leu	Ser 610	Arg	Gly	Gly	Thr	Gly 615	Ala	His	Gln	Pro	Gly 620	His	Gly	Pro	Arg
Arg 625	Pro	Pro	Pro	Ser	Met 630	Leu	Leu	Ala	Gly	Val 635	Glu	Ala	Gly	Thr	Gly 640
Pro	Pro	His	Thr	Cys 645	Pro	Pro	Ser	His	Val 650	Val	Gly	Thr	Asp	Val 655	Val
Leu	Arg	Ser	Ser 660	Ser	Asn	Tyr	Lys	Leu 665	Thr	Val	Ser	Arg	Pro 670	Trp	Lys
Gln	Gly	Pro 675	Gly	Gln	Val	Arg	Gln 680	Glu	Ala	Ala	Trp	Leu 685	Ala	Gly	Thr
Thr	Pro 690	Gln	Thr	Glu	Thr	Val 695	Pro	Ser	Pro	Gly	Ser 700	Leu	Leu	Ile	Trp
Asp 705	Glu	Leu	Gly	Leu	Pro 710	Val	Pro	Ala	Ser	Val 715	Leu	Pro	Leu	Pro	Ser 720
Ala	Gly	Leu	Gly	Ser 725	Ser	Leu	Ile	Cys	Pro 730	Arg	Gly	Cys	Pro	Ile 735	Pro
Ser	Arg	Cys	Pro 740	Arg	Ala	Thr	Tyr	Pro 745	Thr	Gly	Arg	Arg	Ala 750	Ser	Thr
Val	Arg	Gly 755	Val	Gln	Leu	Val	Trp 760	Arg	Glu	Glu	Pro	Leu 765	Val	Gly	Arg
Gly	Ser 770	Arg	Glu	Val	Arg	Phe 775	Ala	Pro	His	Leu	Gly 780	Ala	Leu	Gly	His
Ser 785	Gly	Gln	Gly	Ser	Thr 790	Trp	Pro	Val	Pro	Trp 795	Ala	Arg	Arg	Gly	Ile 800

Lys Ser Ala Val Ala Lys Gln Lys Gln Tyr Cys Arg Gly Arg Val Gly
805 810 815

Arg Asp Cys Ala Met Ser Ser Glu Gln Glu Ala Gly His Gly Glu Lys
820 825 830

Gly Gly Arg Arg Thr Glu Pro Ala Val Pro Ala Glu Gly Pro Glu Trp
835 840 845

Ala Val Gly Thr Glu His Arg Pro Pro Pro Thr Arg Val Ser Pro Val
850 855 860

Thr Ser Gly Phe Pro Arg Ala Glu Ala Gly Met Gly Met Trp Arg Leu
865 870 875 880

Ala Pro Arg Arg Leu Arg Gln Val His Ala Lys Pro Ala Trp Leu Ser
885 890 895

Ser Gly Phe Leu Leu Thr Arg Trp Met Pro Val Pro Arg Pro Pro Asp
900 905 910

Arg Ala Leu Gln His Trp Arg Gly Leu Trp Trp Gly Pro Arg Cys Arg
915 920 925

Thr Gly Thr Ala Ser Ala His
930 935

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<210> 149
<211> 504
<212> PRT
<213> Homo sapien
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<400> 149

Arg Cys Asp Ser Cys Thr Leu Phe Ala Val Glu Ser Ile Leu Gln Gly
1 5 10 15

His Ser Pro Glu Glu Arg Met Lys Gly Gly Ser Arg Gln Tyr Leu Arg
20 25 30

Asp Ser Val Leu Ser Asp Thr His Pro Gln Val Thr Cys Val Ser Gln
35 40 45

Leu Thr Arg Lys Leu Ala Arg Met Ala Leu Cys Gly His Arg Val Thr
50 55 60

185

Ala Met Leu Gln Gly Thr Cys Gly Gly Leu Gly Thr Gln Pro Pro His
65 70 75 80

Ser Ser Gly Leu Cys Ser Gln Ala Pro Trp Pro Gly Ala Gly Gln Val
85 90 95

Leu Met Ser Ile Leu Leu Ala Leu Pro Gly Thr Cys Trp Thr Gly Gln
100 105 110

Ala Gly Asn Ala Gly Ala Glu Trp Gln Phe Pro Pro Tyr Ser Ala Gly
115 120 125

Trp Gln Pro Leu Ala Ser Arg Ser Ala Cys Gly Leu Glu Arg Ile Ala
130 135 140

Gly Ser Trp Val Arg Ala Cys Trp Leu Trp Val Ser Gly Ser His Leu
145 150 155 160

Ile Trp Val Trp Asp Ser Gln Cys Arg Pro Gln Thr Thr Ala Asp Phe
165 170 175

Arg Leu Ser Arg Gly Gly Thr Gly Ala His Gln Pro Gly His Gly Pro
180 185 190

Arg Arg Pro Pro Pro Ser Met Leu Leu Ala Gly Val Glu Ala Gly Thr
195 200 205

Gly Pro Pro His Thr Cys Pro Pro Ser His Val Val Gly Thr Asp Val
210 215 220

Val Leu Arg Ser Ser Ser Asn Tyr Lys Leu Thr Val Ser Arg Pro Trp
225 230 235 240

Lys Gln Gly Pro Gly Gln Val Arg Gln Glu Ala Ala Trp Leu Ala Gly
245 250 255

Thr Thr Pro Gln Thr Glu Thr Val Pro Ser Pro Gly Ser Leu Leu Ile
260 265 270

Trp Asp Glu Leu Gly Leu Pro Val Pro Ala Ser Val Leu Pro Leu Pro
275 280 285

Ser Ala Gly Leu Gly Ser Ser Leu Ile Cys Pro Arg Gly Cys Pro Ile
290 295 300

Pro Ser Arg Cys Pro Arg Ala Thr Tyr Pro Thr Gly Arg Arg Ala Ser

186

305 310 315 320
 Thr Val Arg Gly Val Gln Leu Val Trp Arg Glu Glu Pro Leu Val Gly
 325 330 335
 Arg Gly Ser Arg Glu Val Arg Phe Ala Pro His Leu Gly Ala Leu Gly
 340 345 350
 His Ser Gly Gln Gly Ser Thr Trp Pro Val Pro Trp Ala Arg Arg Gly
 355 360 365
 Ile Lys Ser Ala Val Ala Lys Gln Lys Gln Tyr Cys Arg Gly Arg Val
 370 375 380
 Gly Arg Asp Cys Ala Met Ser Ser Glu Gln Glu Ala Gly His Gly Glu
 385 390 395 400
 Lys Gly Gly Arg Arg Thr Glu Pro Ala Val Pro Ala Glu Gly Pro Glu
 405 410 415
 Trp Ala Val Gly Thr Glu His Arg Pro Pro Pro Thr Arg Val Ser Pro
 420 425 430
 Val Thr Ser Gly Phe Pro Arg Ala Glu Ala Gly Met Gly Met Trp Arg
 435 440 445
 Leu Ala Pro Arg Arg Leu Arg Gln Val His Ala Lys Pro Ala Trp Leu
 450 455 460
 Ser Ser Gly Phe Leu Leu Thr Arg Trp Met Pro Val Pro Arg Pro Pro
 465 470 475 480
 Asp Arg Ala Leu Gln His Trp Arg Gly Leu Trp Trp Gly Pro Arg Cys
 485 490 495
 Arg Thr Gly Thr Ala Ser Ala His
 500

 <210> 150
 <211> 504
 <212> PRT
 <213> Homo sapien

 <400> 150
 Arg Cys Asp Ser Cys Thr Leu Phe Ala Val Glu Ser Ile Leu Gln Gly
 1 5 10 15

187

His Ser Pro Glu Glu Arg Met Lys Gly Gly Ser Arg Gln Tyr Leu Arg
 20 25 30

Asp Ser Val Leu Ser Asp Thr His Pro Gln Val Thr Cys Val Ser Gln
 35 40 45

Leu Thr Arg Lys Leu Ala Arg Met Ala Leu Cys Gly His Arg Val Thr
 50 55 60

Ala Met Leu Gln Gly Thr Cys Gly Gly Leu Gly Thr Gln Pro Pro His
 65 70 75 80

Ser Ser Gly Leu Cys Ser Gln Ala Pro Trp Pro Gly Ala Gly Gln Val
 85 90 95

Leu Met Ser Ile Leu Leu Ala Leu Pro Gly Thr Cys Trp Thr Gly Gln
 100 105 110

Ala Gly Asn Ala Gly Ala Glu Trp Gln Phe Pro Pro Tyr Ser Ala Gly
 115 120 125

Trp Gln Pro Leu Ala Ser Arg Ser Ala Cys Gly Leu Glu Arg Ile Ala
 130 135 140

Gly Ser Trp Val Arg Ala Cys Trp Leu Trp Val Ser Gly Ser His Leu
 145 150 155 160

Ile Trp Val Trp Asp Ser Gln Cys Arg Pro Gln Thr Thr Ala Asp Phe
 165 170 175

Arg Leu Ser Arg Gly Gly Thr Gly Ala His Gln Pro Gly His Gly Pro
 180 185 190

Arg Arg Pro Pro Pro Ser Met Leu Leu Ala Gly Val Glu Ala Gly Thr
 195 200 205

Gly Pro Pro His Thr Cys Pro Pro Ser His Val Val Gly Thr Asp Val
 210 215 220

Val Leu Arg Ser Ser Ser Asn Tyr Lys Leu Thr Val Ser Arg Pro Trp
 225 230 235 240

Lys Gln Gly Pro Gly Gln Val Arg Gln Glu Ala Ala Trp Leu Ala Gly
 245 250 255

188

Thr Thr Pro Gln Thr Glu Thr Val Pro Ser Pro Gly Ser Leu Leu Ile
 260 265 270

Trp Asp Glu Leu Gly Leu Pro Val Pro Ala Ser Val Leu Pro Leu Pro
 275 280 285

Ser Ala Gly Leu Gly Ser Ser Leu Ile Cys Pro Arg Gly Cys Pro Ile
 290 295 300

Pro Ser Arg Cys Pro Arg Ala Thr Tyr Pro Thr Gly Arg Arg Ala Ser
 305 310 315 320

Thr Val Arg Gly Val Gln Leu Val Trp Arg Glu Glu Pro Leu Val Gly
 325 330 335

Arg Gly Ser Arg Glu Val Arg Phe Ala Pro His Leu Gly Ala Leu Gly
 340 345 350

His Ser Gly Gln Gly Ser Thr Trp Pro Val Pro Trp Ala Arg Arg Gly
 355 360 365

Ile Lys Ser Ala Val Ala Lys Gln Lys Gln Tyr Cys Arg Gly Arg Val
 370 375 380

Gly Arg Asp Cys Ala Met Ser Ser Glu Gln Glu Ala Gly His Gly Glu
 385 390 395 400

Lys Gly Gly Arg Arg Thr Glu Pro Ala Val Pro Ala Glu Gly Pro Glu
 405 410 415

Trp Ala Val Gly Thr Glu His Arg Pro Pro Pro Thr Arg Val Ser Pro
 420 425 430

Val Thr Ser Gly Phe Pro Arg Ala Glu Ala Gly Met Gly Met Trp Arg
 435 440 445

Leu Ala Pro Arg Arg Leu Arg Gln Val His Ala Lys Pro Ala Trp Leu
 450 455 460

Ser Ser Gly Phe Leu Leu Thr Arg Trp Met Pro Val Pro Arg Pro Pro
 465 470 475 480

Asp Arg Ala Leu Gln His Trp Arg Gly Leu Trp Trp Gly Pro Arg Cys
 485 490 495

Arg Thr Gly Thr Ala Ser Ala His

189

500

<210> 151
 <211> 290
 <212> PRT
 <213> Homo sapien

<400> 151

Gly Gly Ile Gly Arg Gly Asp Lys Glu Arg Gly Ala Ala Ala Leu Pro
 1 5 10 15

Gly Glu Glu Gly Asp Pro Thr Arg Gly Arg Ser Leu Gly Arg Ala Ser
 20 25 30

Trp Glu Ser Gly Ser Pro Arg Arg Pro Arg Ser Pro Phe Ser Ser Phe
 35 40 45

Leu Pro Arg Pro Ile Cys Leu Ser Leu Glu Ala Arg Pro Cys Ser Ile
 50 55 60

Glu Asp Arg Arg Asn Trp Ser Leu Ile Gly Arg Pro Gly Ala Pro Ala
 65 70 75 80

Ser Gly Leu Asn Arg Ser Ser Gly Leu Trp Leu Gly Pro Asp Arg Cys
 85 90 95

Arg Pro Arg Ser Arg Cys Ser Cys Arg Val Met Glu Asn Pro Ser Pro
 100 105 110

Ala Ala Ala Leu Gly Lys Ala Leu Cys Ala Leu Leu Leu Ala Thr Leu
 115 120 125

Gly Ala Ala Gly Gln Pro Leu Gly Gly Glu Ser Ile Cys Ser Ala Arg
 130 135 140

Ala Pro Ala Lys Tyr Ser Ile Thr Phe Thr Gly Lys Trp Ser Gln Thr
 145 150 155 160

Ala Phe Pro Lys Gln Tyr Pro Leu Phe Arg Pro Pro Ala Gln Trp Ser
 165 170 175

Ser Leu Leu Gly Ala Ala His Ser Ser Asp Tyr Ser Met Trp Arg Lys
 180 185 190

Asn Gln Tyr Val Ser Asn Gly Leu Arg Asp Phe Ala Glu Arg Gly Glu
 195 200 205

190

Ala Trp Ala Leu Met Lys Glu Ile Glu Ala Ala Gly Glu Ala Leu Gln
 210 215 220

Ser Val His Glu Val Phe Ser Ala Pro Ala Val Pro Ser Gly Thr Gly
 225 230 235 240

Ser Phe Leu Gln Gln Gly Cys Pro Pro Ser Pro Gly Val Pro Thr Gly
 245 250 255

Phe Pro Gly Ala Ser Tyr Ser Ala Thr Met Trp Glu Phe His His His
 260 265 270

Arg Asp Leu Ser Gly Ser Ser Gly Ser Tyr Val Glu Thr Arg Asn Ser
 275 280 285

Ser Pro
 290

<210> 152
 <211> 504
 <212> PRT
 <213> Homo sapien

<400> 152

Arg Cys Asp Ser Cys Thr Leu Phe Ala Val Glu Ser Ile Leu Gln Gly
 1 5 10 15

His Ser Pro Glu Glu Arg Met Lys Gly Gly Ser Arg Gln Tyr Leu Arg
 20 25 30

Asp Ser Val Leu Ser Asp Thr His Pro Gln Val Thr Cys Val Ser Gln
 35 40 45

Leu Thr Arg Lys Leu Ala Arg Met Ala Leu Cys Gly His Arg Val Thr
 50 55 60

Ala Met Leu Gln Gly Thr Cys Gly Gly Leu Gly Thr Gln Pro Pro His
 65 70 75 80

Ser Ser Gly Leu Cys Ser Gln Ala Pro Trp Pro Gly Ala Gly Gln Val
 85 90 95

Leu Met Ser Ile Leu Leu Ala Leu Pro Gly Thr Cys Trp Thr Gly Gln
 100 105 110

Ala Gly Asn Ala Gly Ala Glu Trp Gln Phe Pro Pro Tyr Ser Ala Gly

191

115		120		125
Trp Gln Pro Leu Ala Ser Arg Ser Ala Cys Gly Leu Glu Arg Ile Ala	130	135		140
Gly Ser Trp Val Arg Ala Cys Trp Leu Trp Val Ser Gly Ser His Leu	145	150		155 160
Ile Trp Val Trp Asp Ser Gln Cys Arg Pro Gln Thr Thr Ala Asp Phe		165	170	175
Arg Leu Ser Arg Gly Gly Thr Gly Ala His Gln Pro Gly His Gly Pro		180	185	190
Arg Arg Pro Pro Pro Ser Met Leu Leu Ala Gly Val Glu Ala Gly Thr	195		200	205
Gly Pro Pro His Thr Cys Pro Pro Ser His Val Val Gly Thr Asp Val	210		215	220
Val Leu Arg Ser Ser Ser Asn Tyr Lys Leu Thr Val Ser Arg Pro Trp	225	230		235 240
Lys Gln Gly Pro Gly Gln Val Arg Gln Glu Ala Ala Trp Leu Ala Gly		245	250	255
Thr Thr Pro Gln Thr Glu Thr Val Pro Ser Pro Gly Ser Leu Leu Ile		260	265	270
Trp Asp Glu Leu Gly Leu Pro Val Pro Ala Ser Val Leu Pro Leu Pro	275		280	285
Ser Ala Gly Leu Gly Ser Ser Leu Ile Cys Pro Arg Gly Cys Pro Ile	290		295	300
Pro Ser Arg Cys Pro Arg Ala Thr Tyr Pro Thr Gly Arg Arg Ala Ser	305	310		315 320
Thr Val Arg Gly Val Gln Leu Val Trp Arg Glu Glu Pro Leu Val Gly		325	330	335
Arg Gly Ser Arg Glu Val Arg Phe Ala Pro His Leu Gly Ala Leu Gly		340	345	350
His Ser Gly Gln Gly Ser Thr Trp Pro Val Pro Trp Ala Arg Arg Gly	355		360	365

192

Ile Lys Ser Ala Val Ala Lys Gln Lys Gln Tyr Cys Arg Gly Arg Val
 370 375 380

Gly Arg Asp Cys Ala Met Ser Ser Glu Gln Glu Ala Gly His Gly Glu
 385 390 395 400

Lys Gly Gly Arg Arg Thr Glu Pro Ala Val Pro Ala Glu Gly Pro Glu
 405 410 415

Trp Ala Val Gly Thr Glu His Arg Pro Pro Pro Thr Arg Val Ser Pro
 420 425 430

Val Thr Ser Gly Phe Pro Arg Ala Glu Ala Gly Met Gly Met Trp Arg
 435 440 445

Leu Ala Pro Arg Arg Leu Arg Gln Val His Ala Lys Pro Ala Trp Leu
 450 455 460

Ser Ser Gly Phe Leu Leu Thr Arg Trp Met Pro Val Pro Arg Pro Pro
 465 470 475 480

Asp Arg Ala Leu Gln His Trp Arg Gly Leu Trp Trp Gly Pro Arg Cys
 485 490 495

Arg Thr Gly Thr Ala Ser Ala His
 500

<210> 153
 <211> 292
 <212> PRT
 <213> Homo sapien

<400> 153

Met Asn Pro Ile Val Val Val His Gly Gly Gly Ala Gly Pro Ile Ser
 1 5 10 15

Lys Asp Arg Lys Glu Arg Val His Gln Gly Met Val Arg Ala Ala Thr
 20 25 30

Val Gly Tyr Gly Ile Leu Arg Glu Gly Gly Ser Ala Val Asp Ala Val
 35 40 45

Glu Gly Ala Val Val Ala Leu Glu Asp Asp Pro Glu Phe Asn Ala Gly
 50 55 60

193

Cys Gly Ser Val Leu Asn Thr Asn Gly Glu Val Glu Met Asp Ala Ser
65 70 75 80

Ile Met Asp Gly Lys Asp Leu Ser Ala Gly Ala Val Ser Ala Val Gln
85 90 95

Cys Ile Ala Asn Pro Ile Lys Leu Ala Arg Leu Val Met Glu Lys Thr
100 105 110

Pro His Cys Phe Leu Thr Asp Gln Gly Ala Ala Gln Phe Ala Ala Ala
115 120 125

Met Gly Val Pro Glu Ile Pro Gly Glu Lys Leu Val Thr Glu Arg Asn
130 135 140

Lys Lys Arg Leu Glu Lys Glu Lys His Glu Lys Gly Ala Gln Lys Thr
145 150 155 160

Asp Cys Gln Lys Asn Leu Gly Thr Val Gly Ala Val Ala Leu Asp Cys
165 170 175

Lys Gly Asn Val Ala Tyr Ala Thr Ser Thr Gly Gly Ile Val Asn Lys
180 185 190

Met Val Gly Arg Val Gly Asp Ser Pro Cys Leu Gly Ala Gly Gly Tyr
195 200 205

Ala Asp Asn Asp Ile Gly Ala Val Ser Thr Thr Gly His Gly Glu Ser
210 215 220

Ile Leu Lys Val Asn Leu Ala Arg Leu Thr Pro Val Gln Cys Phe Glu
225 230 235 240

Ile Leu Pro Thr Ser Pro Ser Ser Pro Ala Gly Ser Gly Ala Val Gln
245 250 255

Cys Gly Gln His Gly Glu Glu Ser His Phe Leu Gly Gly Gln Tyr Ser
260 265 270

Ser Leu Ser Leu Ile Thr Leu Glu Met Leu Phe Leu Leu Tyr His Pro
275 280 285

Cys Ser Thr Phe
290

<210> 154

194

<211> 106
 <212> PRT
 <213> Homo sapien

<400> 154

Met Ile Thr Pro Leu His Ser Ser Leu Gly Asn Arg Ala Arg Pro Cys
 1 5 10 15

Ile Lys Lys Lys Arg Lys Gly Lys Lys Glu Arg Lys Gln Gln His Asp
 20 25 30

Pro Asp Met Thr Asp Val Gly Asp Pro Gln Pro Ala Asp Thr Val Gly
 35 40 45

Trp Lys Val Gly Arg Glu Gly Pro Val Glu Val Glu Leu Phe Glu Ser
 50 55 60

Asp Thr Ala Ala Val Glu Ala Val Val Gly Glu Ala Gln Val Thr Leu
 65 70 75 80

Arg Thr Leu His Lys Asn Ile Arg Glu Lys Asn Gln Asn Pro Leu Arg
 85 90 95

Lys Met Phe Phe Met Tyr Glu Arg Leu Lys
 100 105

<210> 155
 <211> 186
 <212> PRT
 <213> Homo sapien

<400> 155

Val Gln His Gly Arg Arg Gly Leu Val Val Val Leu Arg Leu Pro Ile
 1 5 10 15

Ala Leu Pro Leu His Gly Asp Val Ala Gly Ile Glu Ala Phe Asp Gln
 20 25 30

Ala Gly Gln Ala Asp Leu Val Leu Gly Gln Leu Ile Pro Gly Trp Gly
 35 40 45

Gln Gly Val His Leu Trp Phe Ser Gly Leu Pro Phe Gly Phe Gly Asp
 50 55 60

Gly Phe Leu Asp Gly Gly Trp Glu Gly Phe Val Gly Asp Leu Ala Leu
 65 70 75 80

195

Val Leu Leu Ala Ile Gln Pro Val Leu Val Gln Asp Gly Glu Asp Ala
85 90 95

Asp His Thr Val Arg Ala Val Val Leu Leu Leu Pro Arg Leu Cys Leu
100 105 110

Gly Ile Met His Leu His Ala Val His Val Pro Val Glu Leu Asp Leu
115 120 125

Arg Val Phe Val Ala His Val His His His Ala His Val His Cys Thr
130 135 140

Leu Tyr Asp Asp Ala Pro Arg Pro Tyr Leu Ala Phe Leu Arg Tyr Asp
145 150 155 160

Tyr Arg Asp Leu Leu Pro Ser Leu Arg Ser Trp Pro Arg Arg Tyr Leu
165 170 175

Cys Thr Glu Val Ser His His Pro Cys Arg
180 185

<210> 156

<211> 119

<212> PRT

<213> Homo sapien

<400> 156

Met Ala Phe Glu Val Leu Asn Leu Arg Ser Arg Asn His Ala Phe Leu
1 5 10 15

Leu Ile Cys Arg Ala Ser Leu Glu Leu Pro Pro Pro Ala Val Lys Gly
20 25 30

Ala Cys Arg Pro Gly Arg Leu Ser Pro Gly Ala Trp Leu Glu Val Ala
35 40 45

Gly Ala Gly Thr Gly Arg Ala Leu Ala Gly Val Val Val Gly Ser Ser
50 55 60

Ala Leu Leu Pro Trp Leu Pro Leu Leu Asn Pro Pro Leu Thr Phe Val
65 70 75 80

Gly Ser Cys Ser Val Arg Arg Glu Leu Gly Ala Leu Ala Pro Arg Leu
85 90 95

Leu Ser Ser Gln Glu Asp Leu Pro His Arg His Gln Trp Leu Leu Leu
100 105 110

196

Trp Pro Arg Glu Val Gly Leu
115

<210> 157
<211> 199
<212> PRT
<213> Homo sapien

<400> 157

Gln Thr Ser Cys Val Ala Leu Lys Lys Gly Ser Ser Thr Phe Pro Asp
1 5 10 15

His Lys Val Lys Val Thr Pro Leu Gly Asn Pro Asp Arg Pro Ala Ala
20 25 30

Gly Gln Thr Asp Arg Glu Arg Glu Ser Glu Gly Glu Gly Glu Val Ser
35 40 45

Asn Ala Pro Gly Thr Pro Gly Ser Leu Ala His Ile Ser Ser Pro Ala
50 55 60

Gln Ala Pro Ser Gly Lys Met Asn Pro Cys Ile Phe Leu Phe Ser Asn
65 70 75 80

Met Ala Phe Glu Val Leu Asn Leu Arg Ser Arg Asn His Ala Phe Leu
85 90 95

Leu Ile Cys Arg Ala Ser Leu Glu Leu Pro Pro Pro Ala Val Lys Gly
100 105 110

Ala Cys Arg Pro Gly Arg Leu Ser Pro Gly Ala Trp Leu Glu Val Ala
115 120 125

Gly Ala Gly Thr Gly Arg Ala Leu Ala Gly Val Val Val Gly Ser Ser
130 135 140

Ala Leu Leu Pro Trp Leu Pro Leu Leu Asn Pro Pro Leu Thr Phe Val
145 150 155 160

Gly Ser Cys Ser Val Arg Arg Glu Leu Gly Ala Leu Ala Pro Arg Leu
165 170 175

Leu Ser Ser Gln Glu Asp Leu Pro His Arg His Gln Trp Leu Leu Leu
180 185 190

197

Trp Pro Arg Glu Val Gly Leu
195

<210> 158
<211> 234
<212> PRT
<213> Homo sapien

<400> 158

Met Gly Trp Tyr Trp Trp Leu Val Thr Asp Val Glu Gly Gly His Leu
1 5 10 15

Leu Leu Pro Gln Ser Thr Val Val Asp Val Gly Glu Ala Phe Phe Glu
20 25 30

Leu Thr Gln Ser Asp Lys Ile Glu Lys Arg Ile Leu Lys Asn Glu Gln
35 40 45

Ile Leu Leu Lys Lys Ser Cys Glu Phe Phe Leu Lys His Asn Ser Lys
50 55 60

Val Lys His Lys Lys Lys His Tyr Lys Pro Ser Ser His Lys Leu Lys
65 70 75 80

Val Ile Ser Lys Ser Met Gly Thr Ser Thr Gly Ala Thr Ala Asn His
85 90 95

Gly Thr Ser Ala Val Ala Ile Thr Ser His Asp Tyr Leu Gly Gln Glu
100 105 110

Thr Leu Thr Glu Ile Gln Thr Ser Pro Glu Thr Ser Met Arg Glu Val
115 120 125

Lys Ala Asp Gly Ala Ser Thr Pro Arg Leu Arg Glu Gln Asp Cys Gly
130 135 140

Glu Pro Ala Ser Pro Ala Ala Ser Ile Ser Arg Leu Ser Gly Glu Gln
145 150 155 160

Val Asp Gly Lys Gly Gln Ala Gly Ser Val Ser Glu Ser Ala Arg Ser
165 170 175

Glu Gly Arg Ile Ser Pro Lys Ser Asp Ile Thr Asp Thr Gly Leu Ala
180 185 190

Gln Ser Asn Asn Leu Gln Val Pro Ser Ser Ser Glu Pro Ser Ser Leu
195 200 205

198

Lys Gly Ser Thr Ser Leu Leu Val His Pro Val Ser Gly Val Arg Lys
 210 215 220

Glu Gln Gly Gly Gly Cys His Ser Asp Thr
 225 230

<210> 159
 <211> 201
 <212> PRT
 <213> Homo sapien

<400> 159

Pro Ser Gln Thr Lys Ile Glu Lys Arg Ile Leu Lys Asn Glu Gln Ile
 1 5 10 15

Leu Leu Lys Lys Ser Cys Glu Phe Phe Leu Lys His Asn Ser Lys Val
 20 25 30

Lys His Lys Lys Lys His Tyr Lys Pro Ser Ser His Lys Leu Lys Val
 35 40 45

Ile Ser Lys Ser Met Gly Thr Ser Thr Gly Ala Thr Ala Asn His Gly
 50 55 60

Thr Ser Ala Val Ala Ile Thr Ser His Asp Tyr Leu Gly Gln Glu Thr
 65 70 75 80

Leu Thr Glu Ile Gln Thr Ser Pro Glu Thr Ser Met Arg Glu Val Lys
 85 90 95

Ala Asp Gly Ala Ser Thr Pro Arg Leu Arg Glu Gln Asp Cys Gly Glu
 100 105 110

Pro Ala Ser Pro Ala Ala Ser Ile Ser Arg Leu Ser Gly Glu Gln Val
 115 120 125

Asp Gly Lys Gly Gln Ala Gly Ser Val Ser Glu Ser Ala Arg Ser Glu
 130 135 140

Gly Arg Ile Ser Pro Lys Ser Asp Ile Thr Asp Thr Gly Leu Ala Gln
 145 150 155 160

Ser Asn Asn Leu Gln Val Pro Ser Ser Ser Glu Pro Ser Ser Leu Lys
 165 170 175

199

Gly Ser Thr Ser Leu Leu Val His Pro Val Ser Gly Val Arg Lys Glu
 180 185 190

Gln Gly Gly Gly Cys His Ser Asp Thr
 195 200

<210> 160
 <211> 159
 <212> PRT
 <213> Homo sapien

<400> 160

Met Asp Pro Asp Ala Leu Leu Trp Gly Met Ser Cys His Gly Leu Gly
 1 5 10 15

Arg Thr Glu Ser Asn Arg Thr Leu Leu Leu Pro Trp Pro His Leu Val
 20 25 30

Gln His Arg Arg Pro Lys Pro Gly Leu Ser Pro Leu Ser Pro Thr His
 35 40 45

Leu Ser Leu Pro Arg Lys Lys Lys Cys Asp Tyr Trp Ile Arg Thr Phe
 50 55 60

Val Pro Gly Cys Gln Pro Gly Glu Phe Thr Leu Gly Asn Ile Lys Ser
 65 70 75 80

Tyr Pro Gly Leu Thr Ser Tyr Leu Val Arg Val Val Ser Thr Asn Tyr
 85 90 95

Asn Gln His Ala Met Val Phe Phe Lys Lys Val Ser Gln Asn Arg Glu
 100 105 110

Tyr Phe Lys Ile Thr Leu Tyr Gly Arg Thr Lys Glu Leu Thr Ser Glu
 115 120 125

Leu Lys Glu Asn Phe Ile Arg Phe Ser Lys Ser Leu Gly Leu Pro Glu
 130 135 140

Asn His Ile Val Phe Pro Val Pro Ile Asp Gln Cys Ile Asp Gly
 145 150 155

<210> 161
 <211> 158
 <212> PRT
 <213> Homo sapien

<400> 161

200

Gly Ser Arg Arg Ser Leu Trp Gly Met Ser Cys His Gly Leu Gly Arg
 1 5 10 15

Thr Glu Ser Asn Arg Thr Leu Leu Leu Pro Trp Pro His Leu Val Gln
 20 25 30

His Arg Arg Pro Lys Pro Gly Leu Ser Pro Leu Ser Pro Thr His Leu
 35 40 45

Ser Leu Pro Arg Lys Lys Lys Cys Asp Tyr Trp Ile Arg Thr Phe Val
 50 55 60

Pro Gly Cys Gln Pro Gly Glu Phe Thr Leu Gly Asn Ile Lys Ser Tyr
 65 70 75 80

Pro Gly Leu Thr Ser Tyr Leu Val Arg Val Val Ser Thr Asn Tyr Asn
 85 90 95

Gln His Ala Met Val Phe Phe Lys Lys Val Ser Gln Asn Arg Glu Tyr
 100 105 110

Phe Lys Ile Thr Leu Tyr Gly Arg Thr Lys Glu Leu Thr Ser Glu Leu
 115 120 125

Lys Glu Asn Phe Ile Arg Phe Ser Lys Ser Leu Gly Leu Pro Glu Asn
 130 135 140

His Ile Val Phe Pro Val Pro Ile Asp Gln Cys Ile Asp Gly
 145 150 155

<210> 162

<211> 229

<212> PRT

<213> Homo sapien

<400> 162

Met Trp Pro Pro Gly Arg Ser Ile Thr Val Lys Leu Arg Glu Lys Thr
 1 5 10 15

Val Ser Arg Lys Leu Glu Met Asn Gly Pro Ser Ala Phe Gln Gly Leu
 20 25 30

Ile Cys Gly Lys Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val
 35 40 45

Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro

201

50

55

60

Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu
65 70 75 80

Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser
85 90 95

Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys
100 105 110

Thr Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser
115 120 125

Gly Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr
130 135 140

Phe Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala
145 150 155 160

Ile Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn
165 170 175

Ile His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala
180 185 190

Gly Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro
195 200 205

Lys Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile
210 215 220

Glu Glu Leu Pro Lys
225

<210> 163
<211> 214
<212> PRT
<213> Homo sapien

<400> 163

Met Val Gly Arg Arg Ala Leu Ile Val Leu Ala His Ser Glu Arg Thr
1 5 10 15

Ser Phe Asn Tyr Ala Met Lys Glu Ala Ala Ala Ala Ala Leu Lys Lys
20 25 30

202

Lys Gly Trp Glu Val Val Glu Ser Asp Leu Tyr Ala Met Asn Phe Asn
 35 40 45

Pro Ile Ile Ser Arg Lys Asp Ile Thr Gly Lys Leu Lys Asp Pro Ala
 50 55 60

Asn Phe Gln Tyr Pro Ala Glu Ser Val Leu Ala Tyr Lys Glu Gly His
 65 70 75 80

Leu Ser Pro Asp Ile Val Ala Glu Leu Gly Val Pro Ala Ile Leu Lys
 85 90 95

Gly Trp Phe Glu Arg Val Phe Ile Gly Glu Phe Ala Tyr Thr Tyr Ala
 100 105 110

Ala Met Tyr Asp Lys Gly Pro Phe Arg Ser Lys Lys Ala Val Leu Ser
 115 120 125

Ile Thr Thr Gly Gly Ser Gly Ser Met Tyr Ser Leu Gln Gly Ile His
 130 135 140

Arg Asp Met Asn Val Ile Leu Trp Pro Ile Gln Ser Gly Ile Leu His
 145 150 155 160

Phe Trp Gly Phe Gln Val Leu Glu Pro Ser Leu Thr Tyr Ser Ile Gly
 165 170 175

Thr Leu Gln Gln Thr Pro Glu Leu Asn Pro Val Arg Met Gly Glu Thr
 180 185 190

Pro Asp Asp Ile Cys Met Arg His His Asp Phe Ala Pro Arg Ala Leu
 195 200 205

Cys Leu Asn Phe Ser Lys
 210

<210> 164

<211> 172

<212> PRT

<213> Homo sapien

<220>

<221> MISC_FEATURE

<222> (112)..(112)

<223> x=any amino acid

<220>

203

<221> MISC_FEATURE
 <222> (144)..(144)
 <223> x=any amino acid

<400> 164

Leu Pro Pro Val Ala Pro Ala Gly Glu Ser Gly Glu Ala Pro Pro Ser
 1 5 10 15

Ser Pro Arg Leu Pro Pro Phe Leu Glu Leu Gln Pro Gln His Pro Pro
 20 25 30

Pro Arg His Pro Tyr Ala Tyr Ser Gly Arg Cys Gly Pro Ala Leu Val
 35 40 45

Arg Leu Ser Thr Ser Tyr Ile Gly Ala Trp Thr Gly Tyr Ile Ser Arg
 50 55 60

Glu Cys His Pro Trp His Tyr Thr Arg Asp Ser His Lys Val Ala Ala
 65 70 75 80

Gly Ala Ala Gln Leu Thr Glu Ser Leu Val Pro Ala Arg Asp Arg Pro
 85 90 95

Gly Asn His Glu Pro Ser Gln Leu Ser Ala Pro Arg Leu Leu Pro Xaa
 100 105 110

Thr Met Val Gly Arg Arg Ala Leu Ile Val Leu Ala His Ser Glu Arg
 115 120 125

Thr Ser Phe Asn Tyr Ala Met Lys Glu Ala Ala Ala Ala Leu Xaa
 130 135 140

Lys Lys Gly Trp Glu Val Val Glu Ser Asp Leu Tyr Ala Met Asn Phe
 145 150 155 160

Asn Pro Ile Ile Ser Arg Lys Asp Ile Thr Gly Asn
 165 170

<210> 165
 <211> 440
 <212> PRT
 <213> Homo sapien

<400> 165

Met Ala Leu Leu Val Leu Gly Leu Val Ser Cys Thr Phe Phe Leu Ala
 1 5 10 15

204

Val Asn Gly Leu Tyr Ser Ser Ser Asp Asp Val Ile Glu Leu Thr Pro
 20 25 30

Ser Asn Phe Asn Arg Glu Val Ile Gln Ser Asp Ser Leu Trp Leu Val
 35 40 45

Glu Phe Tyr Ala Pro Trp Cys Gly His Cys Gln Arg Leu Thr Pro Glu
 50 55 60

Trp Lys Lys Ala Ala Thr Ala Leu Lys Asp Val Val Lys Val Gly Ala
 65 70 75 80

Val Asp Ala Asp Lys His His Ser Leu Gly Gly Gln Tyr Gly Val Gln
 85 90 95

Gly Phe Pro Thr Ile Lys Ile Phe Gly Ser Asn Lys Asn Arg Pro Glu
 100 105 110

Asp Tyr Gln Gly Gly Arg Thr Gly Glu Ala Ile Val Asp Ala Ala Leu
 115 120 125

Ser Ala Leu Arg Gln Leu Val Lys Asp Arg Leu Gly Gly Arg Ser Gly
 130 135 140

Gly Tyr Ser Ser Gly Lys Gln Gly Arg Ser Asp Ser Ser Ser Lys Lys
 145 150 155 160

Asp Val Ile Glu Leu Thr Asp Asp Ser Phe Asp Lys Asn Val Leu Asp
 165 170 175

Ser Glu Asp Val Trp Met Val Glu Phe Tyr Ala Pro Trp Cys Gly His
 180 185 190

Cys Lys Asn Leu Glu Pro Glu Trp Ala Ala Ala Ala Ser Glu Val Lys
 195 200 205

Glu Gln Thr Lys Gly Lys Val Lys Leu Ala Ala Val Asp Ala Thr Val
 210 215 220

Asn Gln Val Leu Ala Ser Arg Tyr Gly Ile Arg Gly Phe Pro Thr Ile
 225 230 235 240

Lys Ile Phe Gln Lys Gly Glu Ser Pro Val Asp Tyr Asp Gly Gly Arg
 245 250 255

205

Thr Arg Ser Asp Ile Val Ser Arg Ala Leu Asp Leu Phe Ser Asp Asn
 260 265 270

Ala Pro Pro Pro Glu Leu Leu Glu Ile Ile Asn Glu Asp Ile Ala Lys
 275 280 285

Arg Thr Cys Glu Glu His Gln Leu Cys Val Val Ala Val Leu Pro His
 290 295 300

Ile Leu Asp Thr Gly Ala Ala Gly Arg Asn Ser Tyr Leu Glu Val Leu
 305 310 315 320

Leu Lys Leu Ala Asp Lys Tyr Lys Lys Lys Met Trp Gly Trp Leu Trp
 325 330 335

Thr Glu Ala Gly Ala Gln Ser Glu Leu Glu Thr Ala Leu Gly Ile Gly
 340 345 350

Gly Phe Gly Tyr Pro Ala Met Ala Ala Ile Asn Ala Arg Lys Met Lys
 355 360 365

Phe Ala Leu Leu Lys Gly Ser Phe Ser Glu Gln Gly Ile Asn Glu Phe
 370 375 380

Leu Arg Glu Leu Ser Phe Gly Arg Gly Ser Thr Ala Pro Val Gly Gly
 385 390 395 400

Gly Ala Phe Pro Thr Ile Val Glu Arg Glu Pro Trp Asp Gly Arg Asp
 405 410 415

Gly Glu Leu Pro Val Glu Asp Asp Ile Asp Leu Ser Asp Val Glu Leu
 420 425 430

Asp Asp Leu Gly Lys Asp Glu Leu
 435 440

<210> 166
 <211> 461
 <212> PRT
 <213> Homo sapien

<400> 166

Leu Ala Pro Gly Phe Tyr Cys Ala Ser Arg Phe Tyr Thr Gly Cys Ser
 1 5 10 15

Thr Pro Gly Ser Ala Trp Leu Ser Trp Val Leu Gly Leu Val Ser Cys
 20 25 30

206

Thr Phe Phe Leu Ala Val Asn Gly Leu Tyr Ser Ser Ser Asp Asp Val
 35 40 45

Ile Glu Leu Thr Pro Ser Asn Phe Asn Arg Glu Val Ile Gln Ser Asp
 50 55 60

Ser Leu Trp Leu Val Glu Phe Tyr Ala Pro Trp Cys Gly His Cys Gln
 65 70 75 80

Arg Leu Thr Pro Glu Trp Lys Lys Ala Ala Thr Ala Leu Lys Asp Val
 85 90 95

Val Lys Val Gly Ala Val Asp Ala Asp Lys His His Ser Leu Gly Gly
 100 105 110

Gln Tyr Gly Val Gln Gly Phe Pro Thr Ile Lys Ile Phe Gly Ser Asn
 115 120 125

Lys Asn Arg Pro Glu Asp Tyr Gln Gly Gly Arg Thr Gly Glu Ala Ile
 130 135 140

Val Asp Ala Ala Leu Ser Ala Leu Arg Gln Leu Val Lys Asp Arg Leu
 145 150 155 160

Gly Gly Arg Ser Gly Gly Tyr Ser Ser Gly Lys Gln Gly Arg Ser Asp
 165 170 175

Ser Ser Ser Lys Lys Asp Val Ile Glu Leu Thr Asp Asp Ser Phe Asp
 180 185 190

Lys Asn Val Leu Asp Ser Glu Asp Val Trp Met Val Glu Phe Tyr Ala
 195 200 205

Pro Trp Cys Gly His Cys Lys Asn Leu Glu Pro Glu Trp Ala Ala Ala
 210 215 220

Ala Ser Glu Val Lys Glu Gln Thr Lys Gly Lys Val Lys Leu Ala Ala
 225 230 235 240

Val Asp Ala Thr Val Asn Gln Val Leu Ala Ser Arg Tyr Gly Ile Arg
 245 250 255

Gly Phe Pro Thr Ile Lys Ile Phe Gln Lys Gly Glu Ser Pro Val Asp
 260 265 270

207

Tyr Asp Gly Gly Arg Thr Arg Ser Asp Ile Val Ser Arg Ala Leu Asp
 275 280 285

Leu Phe Ser Asp Asn Ala Pro Pro Pro Glu Leu Leu Glu Ile Ile Asn
 290 295 300

Glu Asp Ile Ala Lys Arg Thr Cys Glu Glu His Gln Leu Cys Val Val
 305 310 315 320

Ala Val Leu Pro His Ile Leu Asp Thr Gly Ala Ala Gly Arg Asn Ser
 325 330 335

Tyr Leu Glu Val Leu Leu Lys Leu Ala Asp Lys Tyr Lys Lys Lys Met
 340 345 350

Trp Gly Trp Leu Trp Thr Glu Ala Gly Ala Gln Ser Glu Leu Glu Thr
 355 360 365

Ala Leu Gly Ile Gly Gly Phe Gly Tyr Pro Ala Met Ala Ala Ile Asn
 370 375 380

Ala Arg Lys Met Lys Phe Ala Leu Leu Lys Gly Ser Phe Ser Glu Gln
 385 390 395 400

Gly Ile Asn Glu Phe Leu Arg Glu Leu Ser Phe Gly Arg Gly Ser Thr
 405 410 415

Ala Pro Val Gly Gly Gly Ala Phe Pro Thr Ile Val Glu Arg Glu Pro
 420 425 430

Trp Asp Gly Arg Asp Gly Glu Leu Pro Val Glu Asp Asp Ile Asp Leu
 435 440 445

Ser Asp Val Glu Leu Asp Asp Leu Gly Lys Asp Glu Leu
 450 455 460

<210> 167
 <211> 97
 <212> PRT
 <213> Homo sapien

<400> 167

Glu Gly Cys Ile Lys Ile Leu Ser Phe His Ile Gly Val Ser Phe Glu
 1 5 10 15

Asp Val Ala Val Pro Leu Ser Gln Glu Glu Trp Asp Cys Leu Ile Pro

208

20 25 30
 Ala Gln Arg Gly Leu Tyr Lys Asp Val Met Met Gly Thr Tyr Gly Asn
 35 40 45
 Leu Leu Ser Leu Val Gly Glu Trp Leu Ser Lys Leu Trp Tyr Ile His
 50 55 60
 Thr Met Gly Tyr Asp Ser Thr Ile Lys Arg Asn Cys Pro Asp Phe Thr
 65 70 75 80
 Thr Met Gln Tyr Met His Val Arg Asn Leu His Leu Tyr Pro Leu Asn
 85 90 95

Ile

<210> 168
 <211> 81
 <212> PRT
 <213> Homo sapien

<400> 168

Ala Ala Ala Pro Thr Ser Glu Trp Cys Ser Thr Tyr Glu Val Arg Leu
 1 5 10 15
 Thr Gln Thr Val Ala His Leu Lys Gln Gln Val Ser Gly Leu Glu Gly
 20 25 30
 Val Gln Asp Asp Leu Phe Trp Leu Thr Phe Glu Gly Lys Pro Leu Glu
 35 40 45
 Asp Gln Leu Pro Leu Gly Glu Tyr Gly Leu Lys Pro Leu Ser Thr Val
 50 55 60
 Phe Met Asn Leu Arg Leu Arg Gly Gly Gly Thr Glu Pro Gly Gly Arg
 65 70 75 80

Ser

<210> 169
 <211> 102
 <212> PRT
 <213> Homo sapien

<400> 169

209

Gly Arg Ser Asn Ile Arg Met Val Gln His Leu Arg Gly Ala Ala Asp
 1 5 10 15

Ala Asp Arg Gly Pro Pro Glu Ala Ala Ser Glu Arg Ala Gly Gly Cys
 20 25 30

Ala Gly Arg Pro Val Leu Ala Asp Leu Arg Gly Glu Ala Pro Gly Gly
 35 40 45

Pro Ala Pro Ala Gly Gly Val Arg Pro Gln Ala Pro Glu His Arg Val
 50 55 60

His Glu Ser Ala Pro Ala Gly Arg Arg His Arg Ala Trp Arg Ala Glu
 65 70 75 80

Leu Arg Ala Ser Thr Ser Ile Arg Ala Gly Ser Arg Ala Gly Asn Lys
 85 90 95

Gly Cys Cys Lys Glu Lys
 100

<210> 170
 <211> 709
 <212> PRT
 <213> Homo sapien

<400> 170

Met Glu Lys Lys Lys Ile Val Leu Glu Gln Glu Val Lys Thr Leu Asn
 1 5 10 15

Asp Ser Leu Lys Lys Val Glu Asn Lys Val Ser Ala Ile Val Asp Glu
 20 25 30

Lys Glu Asn Val Ile Lys Glu Val Glu Gly Lys Arg Ala Leu Leu Glu
 35 40 45

Ile Lys Glu Arg Glu His Asn Gln Leu Val Lys Leu Leu Glu Leu Ala
 50 55 60

Arg Glu Asn Glu Ala Thr Ser Leu Thr Glu Arg Gly Ile Leu Asp Leu
 65 70 75 80

Asn Leu Arg Asn Ser Leu Ile Asp Lys Gln Asn Tyr His Asp Glu Leu
 85 90 95

Ser Arg Lys Gln Arg Glu Lys Glu Arg Asp Phe Arg Asn Leu Arg Lys
 100 105 110

210

Met Glu Leu Leu Leu Lys Val Ser Trp Asp Ala Leu Arg Gln Thr Gln
 115 120 125

Ala Leu His Gln Arg Leu Leu Leu Glu Met Glu Ala Ile Pro Lys Asp
 130 135 140

Asp Ser Thr Leu Ser Glu Arg Arg Arg Glu Leu His Lys Glu Val Glu
 145 150 155 160

Val Ala Lys Arg Asn Leu Ala Gln Gln Lys Ile Ile Ser Glu Met Glu
 165 170 175

Ser Lys Leu Val Glu Gln Gln Leu Ala Glu Glu Asn Lys Leu Leu Lys
 180 185 190

Glu Gln Glu Asn Met Lys Glu Leu Val Val Asn Leu Leu Arg Met Thr
 195 200 205

Gln Ile Lys Ile Asp Glu Lys Glu Gln Lys Ser Lys Asp Phe Leu Lys
 210 215 220

Ala Gln Gln Lys Tyr Thr Asn Ile Val Lys Glu Met Lys Ala Lys Asp
 225 230 235 240

Leu Glu Ile Arg Ile His Lys Lys Lys Lys Cys Glu Ile Tyr Arg Arg
 245 250 255

Leu Arg Glu Phe Ala Lys Leu Tyr Asp Thr Ile Arg Asn Glu Arg Asn
 260 265 270

Lys Phe Val Asn Leu Leu His Lys Ala His Gln Lys Val Asn Glu Ile
 275 280 285

Lys Glu Arg His Lys Met Ser Leu Asn Glu Leu Glu Ile Leu Arg Asn
 290 295 300

Ser Ala Val Ser Gln Glu Arg Lys Leu Gln Asn Ser Met Leu Lys His
 305 310 315 320

Ala Asn Asn Val Thr Ile Arg Glu Ser Met Gln Asn Asp Val Arg Lys
 325 330 335

Ile Val Ser Lys Leu Gln Glu Met Lys Glu Lys Lys Glu Ala Gln Leu
 340 345 350

211

Asn Asn Ile Asp Arg Leu Ala Asn Thr Ile Thr Met Ile Glu Glu Glu
 355 360 365

Met Val Gln Leu Arg Lys Arg Tyr Glu Lys Ala Val Gln His Glu Met
 370 375 380

Lys Ala Ser Ala Ser Glu Phe Asp His Ser Gly Val Gln Leu Ile Glu
 385 390 395 400

Arg Glu Glu Glu Ile Cys Ile Phe Tyr Glu Lys Ile Asn Ile Gln Glu
 405 410 415

Lys Met Lys Leu Asn Gly Glu Ile Glu Ile His Leu Leu Glu Glu Lys
 420 425 430

Ile Gln Phe Leu Lys Met Lys Ile Ala Glu Lys Gln Arg Gln Ile Cys
 435 440 445

Val Thr Gln Lys Leu Leu Pro Ala Lys Arg Ser Leu Asp Ala Asp Leu
 450 455 460

Ala Val Leu Gln Ile Gln Phe Ser Gln Cys Thr Asp Arg Ile Lys Asp
 465 470 475 480

Leu Glu Lys Gln Phe Val Lys Pro Asp Gly Glu Asn Arg Ala Arg Phe
 485 490 495

Leu Pro Gly Lys Asp Leu Thr Glu Lys Glu Met Ile Gln Lys Leu Asp
 500 505 510

Lys Leu Glu Leu Gln Leu Ala Lys Lys Glu Glu Lys Leu Leu Glu Lys
 515 520 525

Asp Phe Ile Tyr Glu Gln Val Ser Arg Leu Thr Asp Arg Leu Cys Ser
 530 535 540

Lys Thr Gln Gly Cys Lys Gln Asp Thr Leu Leu Leu Ala Lys Lys Met
 545 550 555 560

Asn Gly Tyr Gln Arg Arg Ile Lys Asn Ala Thr Glu Lys Met Met Ala
 565 570 575

Leu Val Ala Glu Leu Ser Met Lys Gln Ala Leu Thr Ile Glu Leu Gln
 580 585 590

Lys Glu Val Arg Glu Lys Glu Asp Phe Ile Phe Thr Cys Asn Ser Arg
595 600 605

Ile Glu Lys Gly Leu Pro Leu Asn Lys Glu Ile Glu Lys Glu Trp Leu
610 615 620

Lys Val Leu Arg Asp Glu Glu Met His Ala Leu Ala Ile Ala Glu Lys
625 630 635 640

Ser Gln Glu Phe Leu Glu Ala Asp Asn Arg Gln Leu Pro Asn Gly Val
645 650 655

Tyr Thr Thr Ala Glu Gln Arg Pro Asn Ala Tyr Ile Pro Glu Ala Asp
660 665 670

Ala Thr Leu Pro Leu Pro Lys Pro Tyr Gly Ala Leu Ala Pro Phe Lys
675 680 685

Pro Ser Glu Pro Gly Ala Asn Met Arg His Ile Arg Lys Pro Val Ile
690 695 700

Lys Pro Val Glu Ile
705

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<210> 171
<211> 413
<212> PRT
<213> Homo sapien
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<400> 171

Ser Gln His Gly Leu Lys Ile Arg Gln Val Cys Val Cys Val Cys Val
1 5 10 15

Cys Val Cys Ile Pro Tyr Arg Glu Met Glu Lys Lys Lys Ile Val Leu
20 25 30

Glu Gln Glu Val Lys Thr Leu Asn Asp Ser Leu Lys Lys Val Glu Asn
35 40 45

Lys Val Ser Ala Ile Val Asp Glu Lys Glu Asn Val Ile Lys Glu Val
50 55 60

Glu Gly Lys Arg Ala Leu Leu Glu Ile Lys Glu Arg Glu His Asn Gln
65 70 75 80

Leu Val Lys Leu Leu Glu Leu Ala Arg Glu Asn Glu Ala Thr Ser Leu
85 90 95

213

Thr Glu Arg Gly Ile Leu Asp Leu Asn Leu Arg Asn Ser Leu Ile Asp
 100 105 110

Lys Gln Asn Tyr His Asp Glu Leu Ser Arg Lys Gln Arg Glu Lys Glu
 115 120 125

Arg Asp Phe Arg Asn Leu Arg Lys Met Glu Leu Leu Leu Lys Val Ser
 130 135 140

Trp Asp Ala Leu Arg Gln Thr Gln Ala Leu His Gln Arg Leu Leu Leu
 145 150 155 160

Glu Met Glu Ala Ile Pro Lys Asp Asp Ser Thr Leu Ser Glu Arg Arg
 165 170 175

Arg Glu Leu His Lys Glu Val Glu Val Ala Lys Arg Asn Leu Ala Gln
 180 185 190

Gln Lys Ile Ile Ser Glu Met Glu Ser Lys Leu Val Glu Gln Gln Leu
 195 200 205

Ala Glu Glu Asn Lys Leu Leu Lys Glu Gln Glu Asn Met Lys Glu Leu
 210 215 220

Val Val Asn Leu Leu Arg Met Thr Gln Ile Lys Ile Asp Glu Lys Glu
 225 230 235 240

Gln Lys Ser Lys Asp Phe Leu Lys Ala Gln Gln Lys Tyr Thr Asn Ile
 245 250 255

Val Lys Glu Met Lys Ala Lys Asp Leu Glu Ile Arg Ile His Lys Lys
 260 265 270

Lys Lys Cys Glu Ile Tyr Arg Arg Leu Arg Glu Phe Ala Lys Leu Tyr
 275 280 285

Asp Thr Ile Arg Asn Glu Arg Asn Lys Phe Val Asn Leu Leu His Lys
 290 295 300

Ala His Gln Lys Val Asn Glu Ile Lys Glu Arg His Lys Met Ser Leu
 305 310 315 320

Asn Glu Leu Glu Ile Leu Arg Asn Ser Ala Val Ser Gln Glu Arg Lys
 325 330 335

214

Leu Gln Asn Ser Met Leu Lys His Ala Asn Asn Val Thr Ile Arg Glu
 340 345 350

Ser Met Gln Asn Asp Val Arg Lys Ile Val Ser Lys Leu Gln Glu Met
 355 360 365

Lys Glu Lys Lys Glu Ala Gln Leu Asn Asn Ile Asp Arg Leu Ala Asn
 370 375 380

Thr Ile Thr Met Ile Glu Glu Glu Met Val Gln Leu Arg Lys Arg Tyr
 385 390 395 400

Glu Lys Ala Val Gln His Arg Asn Glu Ser Leu Cys Leu
 405 410

<210> 172
 <211> 128
 <212> PRT
 <213> Homo sapien

<400> 172

Met Ala Met Gly Leu Met His Ala Arg Ala Ala Gln Cys Asp Gly Cys
 1 5 10 15

Arg Gly Glu Ala Ala Pro Gly Arg Ser Asp Val Met Val Ser Ser Ser
 20 25 30

Leu Asn Pro Gly Val Ala Arg Gly His Arg Asp Arg Gly Gln Ala Ser
 35 40 45

Arg Arg Trp Leu Gln Glu Gly Gly Gln Glu Cys Glu Cys Lys Asp Trp
 50 55 60

Phe Leu Arg Ala Pro Arg Arg Lys Phe Met Thr Val Ser Gly Leu Pro
 65 70 75 80

Lys Lys Gln Cys Pro Cys Asp His Phe Lys Gly Asn Val Lys Lys Thr
 85 90 95

Arg His Gln Arg His His Arg Lys Pro Asn Lys His Ser Arg Ala Cys
 100 105 110

Gln Gln Phe Leu Lys Gln Cys Gln Leu Arg Ser Phe Ala Leu Pro Leu
 115 120 125

<210> 173

215

<211> 94
 <212> PRT
 <213> Homo sapien

<400> 173

Ile Arg Val Ala Arg Gly His Arg Asp Arg Gly Gln Ala Ser Arg Arg
 1 5 10 15

Trp Leu Gln Glu Gly Gly Gln Glu Cys Glu Cys Lys Asp Trp Phe Leu
 20 25 30

Arg Ala Pro Arg Arg Lys Phe Met Thr Val Ser Gly Leu Pro Lys Lys
 35 40 45

Gln Cys Pro Cys Asp His Phe Lys Gly Asn Val Lys Lys Thr Arg His
 50 55 60

Gln Arg His His Arg Lys Pro Asn Lys His Ser Arg Ala Cys Gln Gln
 65 70 75 80

Phe Leu Lys Gln Cys Gln Leu Arg Ser Phe Ala Leu Pro Leu
 85 90

<210> 174
 <211> 118
 <212> PRT
 <213> Homo sapien

<400> 174

Met Ala Met Gly Leu Met His Ala Arg Ala Ala Gln Cys Asp Gly Cys
 1 5 10 15

Arg Gly Glu Ala Ala Pro Gly Arg Ser Gly Val Ala Arg Gly His Arg
 20 25 30

Asp Arg Gly Gln Ala Ser Arg Arg Trp Leu Gln Glu Gly Gly Gln Glu
 35 40 45

Cys Glu Cys Lys Asp Trp Phe Leu Arg Ala Pro Arg Arg Lys Phe Met
 50 55 60

Thr Val Ser Gly Leu Pro Lys Lys Gln Cys Pro Cys Asp His Phe Lys
 65 70 75 80

Gly Asn Val Lys Lys Thr Arg His Gln Arg His His Arg Lys Pro Asn
 85 90 95

216

Lys His Ser Arg Ala Cys Gln Gln Phe Leu Lys Gln Cys Gln Leu Arg
 100 105 110

Ser Phe Ala Leu Pro Leu
 115

<210> 175
 <211> 100
 <212> PRT
 <213> Homo sapien

<400> 175

Trp Met Arg Arg Arg Ala Gly Arg Val Ala Arg Gly His Arg Asp Arg
 1 5 10 15

Gly Gln Ala Ser Arg Arg Trp Leu Gln Glu Gly Gly Gln Glu Cys Glu
 20 25 30

Cys Lys Asp Trp Phe Leu Arg Ala Pro Arg Arg Lys Phe Met Thr Val
 35 40 45

Ser Gly Leu Pro Lys Lys Gln Cys Pro Cys Asp His Phe Lys Gly Asn
 50 55 60

Val Lys Lys Thr Arg His Gln Arg His His Arg Lys Pro Asn Lys His
 65 70 75 80

Ser Arg Ala Cys Gln Gln Phe Leu Lys Gln Cys Gln Leu Arg Ser Phe
 85 90 95

Ala Leu Pro Leu
 100

<210> 176
 <211> 30
 <212> PRT
 <213> Homo sapien

<400> 176

Asn Ala Cys Arg Ala Ala Gln Cys Asp Gly Ser Ala Ala Arg Ala Gly
 1 5 10 15

Leu Gln Glu Gly Gly Lys Asn Val Ser Ala Lys Ile Gly Ser
 20 25 30

<210> 177
 <211> 84
 <212> PRT

217

<213> Homo sapien

<400> 177

Trp Ile Gly Arg Pro Gly Arg Ser Pro Gly Arg Arg Gln Glu Cys Glu
1 5 10 15

Cys Lys Asp Trp Phe Leu Arg Ala Pro Arg Arg Lys Phe Met Thr Val
20 25 30

Ser Gly Leu Pro Lys Lys Gln Cys Pro Cys Asp His Phe Lys Gly Asn
35 40 45

Val Lys Lys Thr Arg His Gln Arg His His Arg Lys Pro Asn Lys His
50 55 60

Ser Arg Ala Cys Gln Gln Phe Leu Lys Gln Cys Gln Leu Arg Ser Phe
65 70 75 80

Ala Leu Pro Leu

<210> 178

<211> 145

<212> PRT

<213> Homo sapien

<400> 178

Met Gln Glu Arg Thr Gly Ala Ala Thr Ala Arg Arg Glu Ser Leu Pro
1 5 10 15

Gln Ala Asn Asn Pro Glu Gln Leu Cys Lys Gln Arg Cys Ile Asn Glu
20 25 30

Ala Ser Trp Thr Met Lys Arg Val Leu Ser Cys Val Pro Glu Pro Thr
35 40 45

Val Val Met Ala Ala Arg Ala Leu Cys Met Leu Gly Leu Val Leu Ala
50 55 60

Leu Leu Ser Ser Ser Ser Ala Glu Glu Tyr Val Gly Leu Ser Gln Gln
65 70 75 80

Gly Leu Trp Gln Leu Thr Gly Leu Cys Leu Gly Gln Pro Ala Asn Gln
85 90 95

Cys Ala Val Pro Ala Lys Asp Arg Val Asp Cys Gly Tyr Pro His Val
100 105 110

218

Thr Pro Lys Glu Cys Asn Asn Arg Gly Cys Cys Phe Asp Ser Arg Ile
 115 120 125

Pro Gly Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Ala Glu Cys Thr
 130 135 140

Phe
 145

<210> 179
 <211> 91
 <212> PRT
 <213> Homo sapien

<400> 179

Met Gln Glu Arg Thr Gly Ala Ala Thr Ala Arg Arg Glu Ser Leu Pro
 1 5 10 15

Gln Ala Asn Asn Pro Glu Gln Leu Cys Lys Gln Arg Cys Ile Asn Glu
 20 25 30

Ala Ser Trp Thr Met Lys Arg Val Leu Ser Cys Val Pro Glu Pro Thr
 35 40 45

Val Val Met Ala Ala Arg Ala Leu Cys Met Leu Gly Leu Val Leu Ala
 50 55 60

Leu Leu Ser Ser Ser Ser Ala Glu Glu Tyr Val Gly Leu Trp Lys Val
 65 70 75 80

His Leu Pro Lys Gly Glu Gly Phe Ser Ser Gly
 85 90

<210> 180
 <211> 1217
 <212> PRT
 <213> Homo sapien

<400> 180

Met Gly Leu Ser Phe Arg Leu His Ser Leu Leu Thr Thr Lys Gln His
 1 5 10 15

Ala Gln Ser Arg Gly Glu Lys Glu Gly Glu Ser Cys Gly Pro His Glu
 20 25 30

His Leu Asp Leu Ala Trp Thr Thr His Ser Ser Leu Ala Leu Ala Leu

219															
35				40				45							
Phe	Leu	Leu	Arg	Val	Trp	Trp	Trp	Trp	Asp	Ser	Lys	Thr	Val	Lys	Ile
	50					55					60				
Ala	Phe	Ser	Pro	Pro	Trp	Gly	Ile	Trp	Gly	Leu	Phe	Lys	Arg	Pro	Ala
65					70					75					80
Pro	Leu	Leu	Glu	Gly	Arg	Arg	Ala	Pro	Arg	Glu	Ala	Glu	Gly	Asp	Arg
				85					90					95	
Arg	Gly	Lys	Gly	Pro	Leu	Ile	Ile	Ala	His	Pro	Thr	Glu	Ile	Leu	Lys
			100					105					110		
Gly	Gly	Val	Leu	Ile	Gln	Arg	Asn	Pro	Gln	Leu	Cys	Tyr	Gln	Asp	Thr
		115					120					125			
Ile	Leu	Trp	Lys	Asp	Ile	Phe	His	Lys	Asn	Asn	Gln	Leu	Ala	Leu	Thr
	130					135					140				
Leu	Ile	Asp	Thr	Asn	Arg	Ser	Arg	Ala	Cys	His	Pro	Cys	Ser	Pro	Met
145					150					155					160
Cys	Lys	Gly	Ser	Arg	Cys	Trp	Gly	Glu	Ser	Ser	Glu	Asp	Cys	Gln	Ser
				165					170					175	
Leu	Thr	Arg	Thr	Val	Cys	Ala	Gly	Gly	Cys	Ala	Arg	Cys	Lys	Gly	Pro
			180					185					190		
Leu	Pro	Thr	Asp	Cys	Cys	His	Glu	Gln	Cys	Ala	Ala	Gly	Cys	Thr	Gly
		195					200					205			
Pro	Lys	His	Ser	Asp	Cys	Leu	Ala	Cys	Leu	His	Phe	Asn	His	Ser	Gly
	210					215					220				
Ile	Cys	Glu	Leu	His	Cys	Pro	Ala	Leu	Val	Thr	Tyr	Asn	Thr	Asp	Thr
225					230					235					240
Phe	Glu	Ser	Met	Pro	Asn	Pro	Glu	Gly	Arg	Tyr	Thr	Phe	Gly	Ala	Ser
				245					250					255	
Cys	Val	Thr	Ala	Cys	Pro	Tyr	Asn	Tyr	Leu	Ser	Thr	Asp	Val	Gly	Ser
			260					265					270		
Cys	Thr	Leu	Val	Cys	Pro	Leu	His	Asn	Gln	Glu	Val	Thr	Ala	Glu	Asp
		275					280					285			

220

Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys Pro Cys Ala Arg Val Cys
 290 295 300

Tyr Gly Leu Gly Met Glu His Leu Arg Glu Val Arg Ala Val Thr Ser
 305 310 315 320

Ala Asn Ile Gln Glu Phe Ala Gly Cys Lys Lys Ile Phe Gly Ser Leu
 325 330 335

Ala Phe Leu Pro Glu Ser Phe Asp Gly Asp Pro Ala Ser Asn Thr Ala
 340 345 350

Pro Leu Gln Pro Glu Gln Leu Gln Val Phe Glu Thr Leu Glu Glu Ile
 355 360 365

Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro Asp Leu
 370 375 380

Ser Val Phe Gln Asn Leu Gln Val Ile Arg Gly Arg Ile Leu His Asn
 385 390 395 400

Gly Ala Tyr Ser Leu Thr Leu Gln Gly Leu Gly Ile Ser Trp Leu Gly
 405 410 415

Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly Leu Ala Leu Ile His His
 420 425 430

Asn Thr His Leu Cys Phe Val His Thr Val Pro Trp Asp Gln Leu Phe
 435 440 445

Arg Asn Pro His Gln Ala Leu Leu His Thr Ala Asn Arg Pro Glu Asp
 450 455 460

Glu Cys Val Gly Glu Gly Leu Ala Cys His Gln Leu Cys Ala Arg Gly
 465 470 475 480

His Cys Trp Gly Pro Gly Pro Thr Gln Cys Val Asn Cys Ser Gln Phe
 485 490 495

Leu Arg Gly Gln Glu Cys Val Glu Glu Cys Arg Val Leu Gln Gly Leu
 500 505 510

Pro Arg Glu Tyr Val Asn Ala Arg His Cys Leu Pro Cys His Pro Glu
 515 520 525

221

Cys Gln Pro Gln Asn Gly Ser Val Thr Cys Phe Gly Pro Glu Ala Asp
 530 535 540

Gln Cys Val Ala Cys Ala His Tyr Lys Asp Pro Pro Phe Cys Val Ala
 545 550 555 560

Arg Cys Pro Ser Gly Val Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp
 565 570 575

Lys Phe Pro Asp Glu Glu Gly Ala Cys Gln Pro Cys Pro Ile Asn Cys
 580 585 590

Thr His Ser Cys Val Asp Leu Asp Asp Lys Gly Cys Pro Ala Glu Gln
 595 600 605

Arg Ala Ser Pro Leu Thr Ser Ile Ile Ser Ala Val Val Gly Ile Leu
 610 615 620

Leu Val Val Val Leu Gly Val Val Phe Gly Ile Leu Ile Lys Arg Arg
 625 630 635 640

Gln Gln Lys Ile Arg Lys Tyr Thr Met Arg Arg Leu Leu Gln Glu Thr
 645 650 655

Glu Leu Val Glu Pro Leu Thr Pro Ser Gly Ala Met Pro Asn Gln Ala
 660 665 670

Gln Met Arg Ile Leu Lys Glu Thr Glu Leu Arg Lys Val Lys Val Leu
 675 680 685

Gly Ser Gly Ala Phe Gly Thr Val Tyr Lys Gly Ile Trp Ile Pro Asp
 690 695 700

Gly Glu Asn Val Lys Ile Pro Val Ala Ile Lys Val Leu Arg Glu Asn
 705 710 715 720

Thr Ser Pro Lys Ala Asn Lys Glu Ile Leu Asp Glu Ala Tyr Val Met
 725 730 735

Ala Gly Val Gly Ser Pro Tyr Val Ser Arg Leu Leu Gly Ile Cys Leu
 740 745 750

Thr Ser Thr Val Gln Leu Val Thr Gln Leu Met Pro Tyr Gly Cys Leu
 755 760 765

222

Leu Asp His Val Arg Glu Asn Arg Gly Arg Leu Gly Ser Gln Asp Leu
 770 775 780

Leu Asn Trp Cys Met Gln Ile Ala Lys Gly Met Ser Tyr Leu Glu Asp
 785 790 795 800

Val Arg Leu Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Lys
 805 810 815

Ser Pro Asn His Val Lys Ile Thr Asp Phe Gly Leu Ala Arg Leu Leu
 820 825 830

Asp Ile Asp Glu Thr Glu Tyr His Ala Asp Gly Gly Lys Val Pro Ile
 835 840 845

Lys Trp Met Ala Leu Glu Ser Ile Leu Arg Arg Arg Phe Thr His Gln
 850 855 860

Ser Asp Val Trp Ser Tyr Gly Val Thr Val Trp Glu Leu Met Thr Phe
 865 870 875 880

Gly Ala Lys Pro Tyr Asp Gly Ile Pro Ala Arg Glu Ile Pro Asp Leu
 885 890 895

Leu Glu Lys Gly Glu Arg Leu Pro Gln Pro Pro Ile Cys Thr Ile Asp
 900 905 910

Val Tyr Met Ile Met Val Lys Cys Trp Met Ile Asp Ser Glu Cys Arg
 915 920 925

Pro Arg Phe Arg Glu Leu Val Ser Glu Phe Ser Arg Met Ala Arg Asp
 930 935 940

Pro Gln Arg Phe Val Val Ile Gln Asn Glu Asp Leu Gly Pro Ala Ser
 945 950 955 960

Pro Leu Asp Ser Thr Phe Tyr Arg Ser Leu Leu Glu Asp Asp Asp Met
 965 970 975

Gly Asp Leu Val Asp Ala Glu Glu Tyr Leu Val Pro Gln Gln Gly Phe
 980 985 990

Phe Cys Pro Asp Pro Ala Pro Gly Ala Gly Gly Met Val His His Arg
 995 1000 1005

His Arg Ser Ser Ser Thr Arg Ser Gly Gly Gly Asp Leu Thr Leu

223

1010		1015		1020
Gly Leu	Glu Pro Ser Glu	Glu Glu	Glu Ala Pro Arg	Ser Pro Leu Ala
1025		1030		1035
Pro Ser	Glu Gly Ala Gly	Ser Asp Val Phe Asp	Gly Asp Leu Gly	
1040		1045	1050	
Met Gly	Ala Ala Lys Gly	Leu Gln Ser Leu Pro	Thr His Asp Pro	
1055		1060	1065	
Ser Pro	Leu Gln Arg Tyr	Ser Glu Asp Pro Thr	Val Pro Leu Pro	
1070		1075	1080	
Ser Glu	Thr Asp Gly Tyr	Val Ala Pro Leu Thr	Cys Ser Pro Gln	
1085		1090	1095	
Pro Glu	Tyr Val Asn Gln	Pro Asp Val Arg Pro	Gln Pro Pro Ser	
1100		1105	1110	
Pro Arg	Glu Gly Pro Leu	Pro Ala Ala Arg Pro	Ala Gly Ala Thr	
1115		1120	1125	
Leu Glu	Arg Ala Lys Thr	Leu Ser Pro Gly Lys	Asn Gly Val Val	
1130		1135	1140	
Lys Asp	Val Phe Ala Phe	Gly Gly Ala Val Glu	Asn Pro Glu Tyr	
1145		1150	1155	
Leu Thr	Pro Gln Gly Gly	Ala Ala Pro Gln Pro	His Pro Pro Pro	
1160		1165	1170	
Ala Phe	Ser Pro Ala Phe	Asp Asn Leu Tyr Tyr	Trp Asp Gln Asp	
1175		1180	1185	
Pro Pro	Glu Arg Gly Ala	Pro Pro Ser Thr Phe	Lys Gly Thr Pro	
1190		1195	1200	
Thr Ala	Glu Asn Pro Glu	Tyr Leu Gly Leu Asp	Val Pro Val	
1205		1210	1215	

<210> 181
 <211> 1375
 <212> PRT
 <213> Homo sapien
 <400> 181

224

Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu
 1 5 10 15
 Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Met Lys
 20 25 30
 Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His
 35 40 45
 Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu Leu Thr Tyr
 50 55 60
 Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val
 65 70 75 80
 Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu
 85 90 95
 Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr
 100 105 110
 Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro
 115 120 125
 Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser
 130 135 140
 Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln
 145 150 155 160
 Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn
 165 170 175
 Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys
 180 185 190
 His Pro Cys Ser Pro Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser
 195 200 205
 Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys
 210 215 220
 Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys
 225 230 235 240

Ala	Ala	Gly	Cys	Thr	Gly	Pro	Lys	His	Ser	Asp	Cys	Leu	Ala	Cys	Leu
					245					250					255
His	Phe	Asn	His	Ser	Gly	Ile	Cys	Glu	Leu	His	Cys	Pro	Ala	Leu	Val
			260					265					270		
Thr	Tyr	Asn	Thr	Asp	Thr	Phe	Glu	Ser	Met	Pro	Asn	Pro	Glu	Gly	Arg
		275					280					285			
Tyr	Thr	Phe	Gly	Ala	Ser	Cys	Val	Thr	Ala	Cys	Pro	Tyr	Asn	Tyr	Leu
	290					295					300				
Ser	Thr	Asp	Val	Gly	Ser	Cys	Thr	Leu	Val	Cys	Pro	Leu	His	Asn	Gln
305					310					315					320
Glu	Val	Thr	Ala	Glu	Asp	Gly	Thr	Gln	Arg	Cys	Glu	Lys	Cys	Ser	Lys
				325					330					335	
Pro	Cys	Ala	Arg	Val	Cys	Tyr	Gly	Leu	Gly	Met	Glu	His	Leu	Arg	Glu
			340					345					350		
Val	Arg	Ala	Val	Thr	Ser	Ala	Asn	Ile	Gln	Glu	Phe	Ala	Gly	Cys	Lys
		355					360					365			
Lys	Ile	Phe	Gly	Ser	Leu	Ala	Phe	Leu	Pro	Glu	Ser	Phe	Asp	Gly	Asp
	370					375					380				
Pro	Ala	Ser	Asn	Thr	Ala	Pro	Leu	Gln	Pro	Glu	Gln	Leu	Gln	Val	Phe
385					390					395					400
Glu	Thr	Leu	Glu	Glu	Ile	Thr	Gly	Tyr	Leu	Tyr	Ile	Ser	Ala	Trp	Pro
				405					410					415	
Asp	Ser	Leu	Pro	Asp	Leu	Ser	Val	Phe	Gln	Asn	Leu	Gln	Val	Ile	Arg
			420					425					430		
Gly	Arg	Ile	Leu	His	Asn	Gly	Ala	Tyr	Ser	Leu	Thr	Leu	Gln	Gly	Leu
		435					440					445			
Gly	Ile	Ser	Trp	Leu	Gly	Leu	Arg	Ser	Leu	Arg	Glu	Leu	Gly	Ser	Gly
	450					455					460				
Leu	Ala	Leu	Ile	His	His	Asn	Thr	His	Leu	Cys	Phe	Val	His	Thr	Val
465					470					475					480
Pro	Trp	Asp	Gln	Leu	Phe	Arg	Asn	Pro	His	Gln	Ala	Leu	Leu	His	Thr

226

485

490

495

Ala Asn Arg Pro Glu Asp Glu Cys Gly Lys Thr Gly Ser Pro Val Cys
 500 505 510

Ala Leu Pro Ile Cys Gln His Thr Ala Val Pro Arg Gly Pro Trp Gln
 515 520 525

Gln Arg Ser Trp Thr Cys Ala Asp Cys Pro Ser Leu Cys Thr Leu Leu
 530 535 540

Asp Ser Ala Gln Leu Trp Leu Ala Trp Pro Leu Gly Met Ala Ser Leu
 545 550 555 560

Ala Gly Ser Tyr Leu Pro Trp His Pro Ser Leu Pro Leu Phe Ser Glu
 565 570 575

Ile Ser Glu Leu Phe Leu Ser Leu His Arg Pro His Leu Ser Pro Pro
 580 585 590

Leu Gln Pro Thr Ala Met Pro Thr Ala Ser Ser Leu Val His Leu Asp
 595 600 605

Leu Gly Pro Pro Leu Lys Val Pro Cys Gly Pro Phe Leu Leu Thr Ala
 610 615 620

Val Gly Glu Gly Leu Ala Cys His Gln Leu Cys Ala Arg Gly His Cys
 625 630 635 640

Trp Gly Pro Gly Pro Thr Gln Cys Val Asn Cys Ser Gln Phe Leu Arg
 645 650 655

Gly Gln Glu Cys Val Glu Glu Cys Arg Val Leu Gln Gly Leu Pro Arg
 660 665 670

Glu Tyr Val Asn Ala Arg His Cys Leu Pro Cys His Pro Glu Cys Gln
 675 680 685

Pro Gln Asn Gly Ser Val Thr Cys Phe Gly Pro Glu Ala Asp Gln Cys
 690 695 700

Val Ala Cys Ala His Tyr Lys Asp Pro Pro Phe Cys Val Ala Arg Cys
 705 710 715 720

Pro Ser Gly Val Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys Phe
 725 730 735

227

Pro Asp Glu Glu Gly Ala Cys Gln Pro Cys Pro Ile Asn Cys Thr His
 740 745 750

Ser Cys Val Asp Leu Asp Asp Lys Gly Cys Pro Ala Glu Gln Arg Ala
 755 760 765

Ser Pro Leu Thr Ser Ile Ile Ser Ala Val Val Gly Ile Leu Leu Val
 770 775 780

Val Val Leu Gly Val Val Phe Gly Ile Leu Ile Lys Arg Arg Gln Gln
 785 790 795 800

Lys Ile Arg Lys Tyr Thr Met Arg Arg Leu Leu Gln Glu Thr Glu Leu
 805 810 815

Val Glu Pro Leu Thr Pro Ser Gly Ala Met Pro Asn Gln Ala Gln Met
 820 825 830

Arg Ile Leu Lys Glu Thr Glu Leu Arg Lys Val Lys Val Leu Gly Ser
 835 840 845

Gly Ala Phe Gly Thr Val Tyr Lys Gly Ile Trp Ile Pro Asp Gly Glu
 850 855 860

Asn Val Lys Ile Pro Val Ala Ile Lys Val Leu Arg Glu Asn Thr Ser
 865 870 875 880

Pro Lys Ala Asn Lys Glu Ile Leu Asp Glu Ala Tyr Val Met Ala Gly
 885 890 895

Val Gly Ser Pro Tyr Val Ser Arg Leu Leu Gly Ile Cys Leu Thr Ser
 900 905 910

Thr Val Gln Leu Val Thr Gln Leu Met Pro Tyr Gly Cys Leu Leu Asp
 915 920 925

His Val Arg Glu Asn Arg Gly Arg Leu Gly Ser Gln Asp Leu Leu Asn
 930 935 940

Trp Cys Met Gln Ile Ala Lys Gly Met Ser Tyr Leu Glu Asp Val Arg
 945 950 955 960

Leu Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Lys Ser Pro
 965 970 975

228

Asn His Val Lys Ile Thr Asp Phe Gly Leu Ala Arg Leu Leu Asp Ile
 980 985 990

Asp Glu Thr Glu Tyr His Ala Asp Gly Gly Lys Val Pro Ile Lys Trp
 995 1000 1005

Met Ala Leu Glu Ser Ile Leu Arg Arg Arg Phe Thr His Gln Ser
 1010 1015 1020

Asp Val Trp Ser Tyr Gly Val Thr Val Trp Glu Leu Met Thr Phe
 1025 1030 1035

Gly Ala Lys Pro Tyr Asp Gly Ile Pro Ala Arg Glu Ile Pro Asp
 1040 1045 1050

Leu Leu Glu Lys Gly Glu Arg Leu Pro Gln Pro Pro Ile Cys Thr
 1055 1060 1065

Ile Asp Val Tyr Met Ile Met Val Lys Cys Trp Met Ile Asp Ser
 1070 1075 1080

Glu Cys Arg Pro Arg Phe Arg Glu Leu Val Ser Glu Phe Ser Arg
 1085 1090 1095

Met Ala Arg Asp Pro Gln Arg Phe Val Val Ile Gln Asn Glu Asp
 1100 1105 1110

Leu Gly Pro Ala Ser Pro Leu Asp Ser Thr Phe Tyr Arg Ser Leu
 1115 1120 1125

Leu Glu Asp Asp Asp Met Gly Asp Leu Val Asp Ala Glu Glu Tyr
 1130 1135 1140

Leu Val Pro Gln Gln Gly Phe Phe Cys Pro Asp Pro Ala Pro Gly
 1145 1150 1155

Ala Gly Gly Met Val His His Arg His Arg Ser Ser Ser Thr Arg
 1160 1165 1170

Ser Gly Gly Gly Asp Leu Thr Leu Gly Leu Glu Pro Ser Glu Glu
 1175 1180 1185

Glu Ala Pro Arg Ser Pro Leu Ala Pro Ser Glu Gly Ala Gly Ser
 1190 1195 1200

229

Asp Val Phe Asp Gly Asp Leu Gly Met Gly Ala Ala Lys Gly Leu
 1205 1210 1215

Gln Ser Leu Pro Thr His Asp Pro Ser Pro Leu Gln Arg Tyr Ser
 1220 1225 1230

Glu Asp Pro Thr Val Pro Leu Pro Ser Glu Thr Asp Gly Tyr Val
 1235 1240 1245

Ala Pro Leu Thr Cys Ser Pro Gln Pro Glu Tyr Val Asn Gln Pro
 1250 1255 1260

Asp Val Arg Pro Gln Pro Pro Ser Pro Arg Glu Gly Pro Leu Pro
 1265 1270 1275

Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu Arg Ala Lys Thr Leu
 1280 1285 1290

Ser Pro Gly Lys Asn Gly Val Val Lys Asp Val Phe Ala Phe Gly
 1295 1300 1305

Gly Ala Val Glu Asn Pro Glu Tyr Leu Thr Pro Gln Gly Gly Ala
 1310 1315 1320

Ala Pro Gln Pro His Pro Pro Pro Ala Phe Ser Pro Ala Phe Asp
 1325 1330 1335

Asn Leu Tyr Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala Pro
 1340 1345 1350

Pro Ser Thr Phe Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr
 1355 1360 1365

Leu Gly Leu Asp Val Pro Val
 1370 1375

<210> 182
 <211> 575
 <212> PRT
 <213> Homo sapien

<400> 182

Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu
 1 5 10 15

Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Met Lys
 20 25 30

230

Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His
 35 40 45

Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu Leu Thr Tyr
 50 55 60

Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val
 65 70 75 80

Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu
 85 90 95

Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr
 100 105 110

Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro
 115 120 125

Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser
 130 135 140

Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln
 145 150 155 160

Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn
 165 170 175

Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys
 180 185 190

His Pro Cys Ser Pro Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser
 195 200 205

Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys
 210 215 220

Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys
 225 230 235 240

Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu
 245 250 255

His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val
 260 265 270

231

Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro Glu Gly Arg
 275 280 285

Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu
 290 295 300

Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln
 305 310 315 320

Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys
 325 330 335

Pro Cys Ala Arg Val Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu
 340 345 350

Val Arg Ala Val Thr Ser Ala Asn Ile Gln Glu Phe Ala Gly Cys Lys
 355 360 365

Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu Ser Phe Asp Gly Asp
 370 375 380

Pro Ala Ser Asn Thr Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe
 385 390 395 400

Glu Thr Leu Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro
 405 410 415

Asp Ser Leu Pro Asp Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg
 420 425 430

Gly Arg Ile Leu His Asn Gly Ala Tyr Ser Leu Thr Leu Gln Gly Leu
 435 440 445

Gly Ile Ser Trp Leu Gly Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly
 450 455 460

Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr Val
 465 470 475 480

Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr
 485 490 495

Ala Asn Arg Pro Glu Asp Glu Cys Gly Lys Thr Gly Ser Pro Val Cys
 500 505 510

232

Ala Leu Pro Ile Cys Gln His Thr Ala Val Pro Arg Gly Pro Trp Gln
 515 520 525

Gln Arg Ser Trp Thr Cys Ala Asp Cys Pro Ser Leu Cys Thr Leu Leu
 530 535 540

Asp Ser Ala Gln Leu Trp Leu Ala Trp Pro Leu Gly Met Ala Ser Leu
 545 550 555 560

Ala Gly Ser Tyr Leu Pro Trp His Pro Ser Leu Pro Leu Cys Phe
 565 570 575

<210> 183

<211> 815

<212> PRT

<213> Homo sapien

<400> 183

Leu Gly Pro Thr Cys Leu Gly Ile Leu Pro Ser Pro Ser Val Ser Glu
 1 5 10 15

Ile Ser Glu Leu Phe Leu Ser Leu His Arg Pro His Leu Ser Pro Pro
 20 25 30

Leu Gln Pro Thr Ala Met Pro Thr Ala Ser Ser Leu Val His Leu Asp
 35 40 45

Leu Gly Pro Pro Leu Lys Val Pro Cys Gly Pro Phe Leu Leu Thr Ala
 50 55 60

Val Gly Glu Gly Leu Ala Cys His Gln Leu Cys Ala Arg Gly His Cys
 65 70 75 80

Trp Gly Pro Gly Pro Thr Gln Cys Val Asn Cys Ser Gln Phe Leu Arg
 85 90 95

Gly Gln Glu Cys Val Glu Glu Cys Arg Val Leu Gln Gly Leu Pro Arg
 100 105 110

Glu Tyr Val Asn Ala Arg His Cys Leu Pro Cys His Pro Glu Cys Gln
 115 120 125

Pro Gln Asn Gly Ser Val Thr Cys Phe Gly Pro Glu Ala Asp Gln Cys
 130 135 140

Val Ala Cys Ala His Tyr Lys Asp Pro Pro Phe Cys Val Ala Arg Cys
 145 150 155 160

233

Pro Ser Gly Val Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys Phe
 165 170 175

Pro Asp Glu Glu Gly Ala Cys Gln Pro Cys Pro Ile Asn Cys Thr His
 180 185 190

Ser Cys Val Asp Leu Asp Asp Lys Gly Cys Pro Ala Glu Gln Arg Ala
 195 200 205

Ser Pro Leu Thr Ser Ile Ile Ser Ala Val Val Gly Ile Leu Leu Val
 210 215 220

Val Val Leu Gly Val Val Phe Gly Ile Leu Ile Lys Arg Arg Gln Gln
 225 230 235 240

Lys Ile Arg Lys Tyr Thr Met Arg Arg Leu Leu Gln Glu Thr Glu Leu
 245 250 255

Val Glu Pro Leu Thr Pro Ser Gly Ala Met Pro Asn Gln Ala Gln Met
 260 265 270

Arg Ile Leu Lys Glu Thr Glu Leu Arg Lys Val Lys Val Leu Gly Ser
 275 280 285

Gly Ala Phe Gly Thr Val Tyr Lys Gly Ile Trp Ile Pro Asp Gly Glu
 290 295 300

Asn Val Lys Ile Pro Val Ala Ile Lys Val Leu Arg Glu Asn Thr Ser
 305 310 315 320

Pro Lys Ala Asn Lys Glu Ile Leu Asp Glu Ala Tyr Val Met Ala Gly
 325 330 335

Val Gly Ser Pro Tyr Val Ser Arg Leu Leu Gly Ile Cys Leu Thr Ser
 340 345 350

Thr Val Gln Leu Val Thr Gln Leu Met Pro Tyr Gly Cys Leu Leu Asp
 355 360 365

His Val Arg Glu Asn Arg Gly Arg Leu Gly Ser Gln Asp Leu Leu Asn
 370 375 380

Trp Cys Met Gln Ile Ala Lys Gly Met Ser Tyr Leu Glu Asp Val Arg
 385 390 395 400

234

Leu Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Lys Ser Pro
 405 410 415

Asn His Val Lys Ile Thr Asp Phe Gly Leu Ala Arg Leu Leu Asp Ile
 420 425 430

Asp Glu Thr Glu Tyr His Ala Asp Gly Gly Lys Val Pro Ile Lys Trp
 435 440 445

Met Ala Leu Glu Ser Ile Leu Arg Arg Arg Phe Thr His Gln Ser Asp
 450 455 460

Val Trp Ser Tyr Gly Val Thr Val Trp Glu Leu Met Thr Phe Gly Ala
 465 470 475 480

Lys Pro Tyr Asp Gly Ile Pro Ala Arg Glu Ile Pro Asp Leu Leu Glu
 485 490 495

Lys Gly Glu Arg Leu Pro Gln Pro Pro Ile Cys Thr Ile Asp Val Tyr
 500 505 510

Met Ile Met Val Lys Cys Trp Met Ile Asp Ser Glu Cys Arg Pro Arg
 515 520 525

Phe Arg Glu Leu Val Ser Glu Phe Ser Arg Met Ala Arg Asp Pro Gln
 530 535 540

Arg Phe Val Val Ile Gln Asn Glu Asp Leu Gly Pro Ala Ser Pro Leu
 545 550 555 560

Asp Ser Thr Phe Tyr Arg Ser Leu Leu Glu Asp Asp Asp Met Gly Asp
 565 570 575

Leu Val Asp Ala Glu Glu Tyr Leu Val Pro Gln Gln Gly Phe Phe Cys
 580 585 590

Pro Asp Pro Ala Pro Gly Ala Gly Gly Met Val His His Arg His Arg
 595 600 605

Ser Ser Ser Thr Arg Ser Gly Gly Gly Asp Leu Thr Leu Gly Leu Glu
 610 615 620

Pro Ser Glu Glu Glu Ala Pro Arg Ser Pro Leu Ala Pro Ser Glu Gly
 625 630 635 640

235

Ala Gly Ser Asp Val Phe Asp Gly Asp Leu Gly Met Gly Ala Ala Lys
645 650 655

Gly Leu Gln Ser Leu Pro Thr His Asp Pro Ser Pro Leu Gln Arg Tyr
660 665 670

Ser Glu Asp Pro Thr Val Pro Leu Pro Ser Glu Thr Asp Gly Tyr Val
675 680 685

Ala Pro Leu Thr Cys Ser Pro Gln Pro Glu Tyr Val Asn Gln Pro Asp
690 695 700

Val Arg Pro Gln Pro Pro Ser Pro Arg Glu Gly Pro Leu Pro Ala Ala
705 710 715 720

Arg Pro Ala Gly Ala Thr Leu Glu Arg Ala Lys Thr Leu Ser Pro Gly
725 730 735

Lys Asn Gly Val Val Lys Asp Val Phe Ala Phe Gly Gly Ala Val Glu
740 745 750

Asn Pro Glu Tyr Leu Thr Pro Gln Gly Gly Ala Ala Pro Gln Pro His
755 760 765

Pro Pro Pro Ala Phe Ser Pro Ala Phe Asp Asn Leu Tyr Tyr Trp Asp
770 775 780

Gln Asp Pro Pro Glu Arg Gly Ala Pro Pro Ser Thr Phe Lys Gly Thr
785 790 795 800

Pro Thr Ala Glu Asn Pro Glu Tyr Leu Gly Leu Asp Val Pro Val
805 810 815

<210> 184

<211> 164

<212> PRT

<213> Homo sapien

<400> 184

Ser Arg Gly Ser Leu Ser Thr Phe Cys Ser Ala Leu Thr Asp Pro Ser
1 5 10 15

Pro Leu Gln Arg Tyr Ser Glu Asp Pro Thr Val Pro Leu Pro Ser Glu
20 25 30

Thr Asp Gly Tyr Val Ala Pro Leu Thr Cys Ser Pro Gln Pro Glu Tyr
35 40 45

236

Val Asn Gln Pro Asp Val Arg Pro Gln Pro Pro Ser Pro Arg Glu Gly
 50 55 60

Pro Leu Pro Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu Arg Ala Lys
 65 70 75 80

Thr Leu Ser Pro Gly Lys Asn Gly Val Val Lys Asp Val Phe Ala Phe
 85 90 95

Gly Gly Ala Val Glu Asn Pro Glu Tyr Leu Thr Pro Gln Gly Gly Ala
 100 105 110

Ala Pro Gln Pro His Pro Pro Pro Ala Phe Ser Pro Ala Phe Asp Asn
 115 120 125

Leu Tyr Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala Pro Pro Ser
 130 135 140

Thr Phe Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr Leu Gly Leu
 145 150 155 160

Asp Val Pro Val

<210> 185
 <211> 162
 <212> PRT
 <213> Homo sapien

<400> 185

Arg Ile Leu Val Asp Phe Cys Ser Ala Leu Thr Asp Pro Ser Pro Leu
 1 5 10 15

Gln Arg Tyr Ser Glu Asp Pro Thr Val Pro Leu Pro Ser Glu Thr Asp
 20 25 30

Gly Tyr Val Ala Pro Leu Thr Cys Ser Pro Gln Pro Glu Tyr Val Asn
 35 40 45

Gln Pro Asp Val Arg Pro Gln Pro Pro Ser Pro Arg Glu Gly Pro Leu
 50 55 60

Pro Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu Arg Ala Lys Thr Leu
 65 70 75 80

237

Ser Pro Gly Lys Asn Gly Val Val Lys Asp Val Phe Ala Phe Gly Gly
 85 90 95

Ala Val Glu Asn Pro Glu Tyr Leu Thr Pro Gln Gly Gly Ala Ala Pro
 100 105 110

Gln Pro His Pro Pro Pro Ala Phe Ser Pro Ala Phe Asp Asn Leu Tyr
 115 120 125

Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala Pro Pro Ser Thr Phe
 130 135 140

Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr Leu Gly Leu Asp Val
 145 150 155 160

Pro Val

<210> 186
 <211> 75
 <212> PRT
 <213> Homo sapien

<400> 186

Leu Tyr Gly Pro Lys Val Ala Thr Pro Ser Ser Cys Leu Gln Pro Ser
 1 5 10 15

Leu Arg Gln Pro Leu Leu Leu Gly Pro Gly Pro Thr Arg Ala Gly Gly
 20 25 30

Ser Thr Gln His Leu Gln Arg Asp Thr Tyr Gly Arg Glu Pro Arg Val
 35 40 45

Pro Gly Ser Gly Arg Ala Ser Val Asn Gln Lys Ala Lys Ser Ala Glu
 50 55 60

Ala Leu Met Cys Pro Gln Gly Ala Gly Lys Ala
 65 70 75

<210> 187
 <211> 100
 <212> PRT
 <213> Homo sapien

<400> 187

Cys Val Leu Arg Glu Gln Gly Arg Pro Asp Phe Cys Trp His Gln Glu
 1 5 10 15

238

Val Gly Gly Pro Ser Asp His Phe Gln Gly Asn Leu Pro Cys Gln Glu
 20 25 30

Pro Val Leu Arg Asn Leu Pro Ser Cys Leu Ser Ser Gln Met Ala Gly
 35 40 45

Arg Gly Pro Ala Ser Leu Glu Glu Glu Gln His Trp Gly Val Phe Val
 50 55 60

Asp Ser Glu Ala Leu Pro Asn Glu Thr Leu Gly Ser Ser Gly Cys His
 65 70 75 80

Ser Pro Ala Trp Pro Phe Pro Ser Arg Ser Trp Val Leu Lys Ala Leu
 85 90 95

Gly Lys Leu Ala
 100

<210> 188
 <211> 678
 <212> PRT
 <213> Homo sapien

<400> 188

Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu
 1 5 10 15

Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Met Lys
 20 25 30

Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His
 35 40 45

Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu Leu Thr Tyr
 50 55 60

Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val
 65 70 75 80

Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu
 85 90 95

Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr
 100 105 110

Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro

239

115	120	125
Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser		
130	135	140
Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln		
145	150	155
Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn		
165	170	175
Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys		
180	185	190
His Pro Cys Ser Pro Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser		
195	200	205
Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys		
210	215	220
Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys		
225	230	235
Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu		
245	250	255
His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val		
260	265	270
Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro Glu Gly Arg		
275	280	285
Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu		
290	295	300
Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln		
305	310	315
Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys		
325	330	335
Pro Cys Ala Arg Val Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu		
340	345	350
Val Arg Ala Val Thr Ser Ala Asn Ile Gln Glu Phe Ala Gly Cys Lys		
355	360	365

240

Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu Ser Phe Asp Gly Asp
370 375 380

Pro Ala Ser Asn Thr Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe
385 390 395 400

Glu Thr Leu Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro
405 410 415

Asp Ser Leu Pro Asp Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg
420 425 430

Gly Arg Ile Leu His Asn Gly Ala Tyr Ser Leu Thr Leu Gln Gly Leu
435 440 445

Gly Ile Ser Trp Leu Gly Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly
450 455 460

Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr Val
465 470 475 480

Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr
485 490 495

Ala Asn Arg Pro Glu Asp Glu Cys Val Gly Glu Gly Leu Ala Cys His
500 505 510

Gln Leu Cys Ala Arg Gly His Cys Trp Gly Pro Gly Pro Thr Gln Cys
515 520 525

Val Asn Cys Ser Gln Phe Leu Arg Gly Gln Glu Cys Val Glu Glu Cys
530 535 540

Arg Val Leu Gln Gly Leu Pro Arg Glu Tyr Val Asn Ala Arg His Cys
545 550 555 560

Leu Pro Cys His Pro Glu Cys Gln Pro Gln Asn Gly Ser Val Thr Cys
565 570 575

Phe Gly Pro Glu Ala Asp Gln Cys Val Ala Cys Ala His Tyr Lys Asp
580 585 590

Pro Pro Phe Cys Val Ala Arg Cys Pro Ser Gly Val Lys Pro Asp Leu
595 600 605

241

Ser Tyr Met Pro Ile Trp Lys Phe Pro Asp Glu Glu Gly Ala Cys Gln
 610 615 620

Pro Cys Pro Ile Asn Cys Thr His Ser Cys Val Asp Leu Asp Asp Lys
 625 630 635 640

Gly Cys Pro Ala Glu Gln Arg Ala Arg Leu Ala Trp Thr Pro Gly Cys
 645 650 655

Thr Leu His Cys Pro Ser Leu Pro His Trp Met Leu Gly Gly His Cys
 660 665 670

Cys Arg Glu Gly Thr Pro
 675

<210> 189
 <211> 195
 <212> PRT
 <213> Homo sapien

<400> 189

Met Ala Ala Gly Gln Arg Arg Ser Ser Leu Ser Arg Leu Gly Ser Gln
 1 5 10 15

Ala Glu Gly Leu Leu Ile Ser Gln Thr Met Gly Gly Gln Ala Glu Thr
 20 25 30

Leu Leu Thr Ser Gln Thr Gly Trp Arg Pro Gly Arg Gly Cys Asn Leu
 35 40 45

Gly Ser Leu Gly Gly Gln Gly Arg Arg Leu Gly Gly Gly Cys Ser Glu
 50 55 60

Pro Arg Ser Arg His Cys Thr Pro Ala Leu Ala Pro Ile Glu His Trp
 65 70 75 80

Val Asn Glu Thr Pro Ser Ala Ile Pro Ala Pro Arg Glu Ala Glu Val
 85 90 95

Val Asp His Ser Arg Leu Gly Ala Gly Val Glu Ala Lys Asn Tyr Glu
 100 105 110

Glu Ile Ala Lys Val Glu Lys Leu Lys Pro Leu Glu Val Glu Leu Arg
 115 120 125

Arg Leu Glu Asp Leu Ser Glu Ser Ile Val Asn Asp Phe Ala Tyr Met

130

140

Arg Val Leu Tyr Phe Ser Ile Phe Ser Met Phe Cys Leu Ile Gly Leu
165 170 175

Leu Ile Glu
195

<210>	190
<211>	114
<212>	PRT
<213>	Homo sapien

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<220>
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<222> (15)..(16)
<223> x=any amino acid
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<400> 190

Thr Arg Leu Arg Leu Gln Ser Arg His Leu Gly Arg Pro Arg Xaa Xaa
1 5 10 15

Asp His Ser Arg Leu Gly Ala Gly Val Glu Ala Lys Asn Tyr Glu Glu
20 25 30

Ile Ala Lys Val Glu Lys Leu Lys Pro Leu Glu Val Glu Leu Arg Arg
35 40 45

Leu Glu Asp Leu Ser Glu Ser Ile Val Asn Asp Phe Ala Tyr Met Lys
50 55 60

Lys Arg Glu Glu Glu Met Arg Asp Thr Asn Glu Ser Thr Asn Thr Arg
65 70 75 80

Val Leu Tyr Phe Ser Ile Phe Ser Met Phe Cys Leu Ile Gly Leu Ala
85 90 95

Thr Trp Gln Val Phe Tyr Leu Arg Arg Phe Phe Lys Ala Lys Lys Leu
100 105 110

Ile Glu

243

<210> 191
 <211> 64
 <212> PRT
 <213> Homo sapien

<400> 191

Met Ser Ala Leu Trp Arg Phe Gly Leu Phe Asn Thr Gly Leu Gly Gln
 1 5 10 15

Asp Ser Glu Gly His Cys Gly Pro Ser Thr Ile Arg Ser Phe Pro Phe
 20 25 30

Pro Leu Met Thr Ser Pro Val Ala Leu Phe Ser Leu Phe Gln Met Ala
 35 40 45

Gln Thr Thr Pro Pro Phe Pro Pro His Thr Pro Ile Thr Val Gln Gly
 50 55 60

<210> 192
 <211> 325
 <212> PRT
 <213> Homo sapien

<400> 192

His Arg Ile Gly Thr Gly Phe Arg Gly Thr Leu Trp Pro Phe Tyr Asn
 1 5 10 15

Gln Glu Leu Pro Leu Ser Ser Asp Asp Ile Thr Cys Gly Phe Val Leu
 20 25 30

Phe Val Pro Asp Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr Thr
 35 40 45

Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser
 50 55 60

Asn Pro Pro Ala Gln Tyr Ser Trp Leu Ile Asp Gly Asn Ile Gln Gln
 65 70 75 80

His Thr Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly
 85 90 95

Leu Tyr Thr Cys Gln Ala Asn Asn Ser Ala Ser Gly His Ser Arg Thr
 100 105 110

244

Thr Val Lys Thr Ile Thr Val Ser Ala Glu Leu Pro Lys Pro Ser Ile
 115 120 125

Ser Ser Asn Asn Ser Lys Pro Val Glu Asp Lys Asp Ala Val Ala Phe
 130 135 140

Thr Cys Glu Pro Glu Ala Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn
 145 150 155 160

Gly Gln Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn
 165 170 175

Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Ala Arg Ala Tyr
 180 185 190

Val Cys Gly Ile Gln Asn Ser Val Ser Ala Asn Arg Ser Asp Pro Val
 195 200 205

Thr Leu Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro
 210 215 220

Asp Ser Ser Tyr Leu Ser Gly Ala Asn Leu Asn Leu Ser Cys His Ser
 225 230 235 240

Ala Ser Asn Pro Ser Pro Gln Tyr Ser Trp Arg Ile Asn Gly Ile Pro
 245 250 255

Gln Gln His Thr Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn
 260 265 270

Asn Gly Thr Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn
 275 280 285

Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser Pro
 290 295 300

Gly Leu Ser Ala Gly Ala Thr Val Gly Ile Met Ile Gly Val Leu Val
 305 310 315 320

Gly Val Ala Leu Ile
 325

<210> 193
 <211> 702
 <212> PRT
 <213> Homo sapien

245

<400> 193

Met Glu Ser Pro Ser Ala Pro Pro His Arg Trp Cys Ile Pro Trp Gln
 1 5 10 15

Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro Pro Thr
 20 25 30

Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly
 35 40 45

Lys Glu Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
 50 55 60

Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile
 65 70 75 80

Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser
 85 90 95

Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile
 100 105 110

Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp
 115 120 125

Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr Pro Glu Leu
 130 135 140

Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro Val Glu Asp Lys
 145 150 155 160

Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Thr Gln Asp Ala Thr Tyr
 165 170 175

Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg Leu Gln
 180 185 190

Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn
 195 200 205

Asp Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn Pro Val Ser Ala Arg
 210 215 220

Arg Ser Asp Ser Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro
 225 230 235 240

246

Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu Asn Leu Asn
 245 250 255

Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser Trp Phe
 260 265 270

Val Asn Gly Thr Phe Gln Gln Ser Thr Gln Glu Leu Phe Ile Pro Asn
 275 280 285

Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln Ala His Asn Ser
 290 295 300

Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr Ile Thr Val Tyr Ala
 305 310 315 320

Glu Pro Pro Lys Pro Phe Ile Thr Ser Asn Asn Ser Asn Pro Val Glu
 325 330 335

Asp Glu Asp Ala Val Ala Leu Thr Cys Glu Pro Glu Ile Gln Asn Thr
 340 345 350

Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
 355 360 365

Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser Val Thr
 370 375 380

Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile Gln Asn Glu Leu Ser
 385 390 395 400

Val Asp His Ser Asp Pro Val Ile Leu Asn Val Leu Tyr Gly Pro Asp
 405 410 415

Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val Asn
 420 425 430

Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser
 435 440 445

Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr Gln Glu Leu Phe Ile
 450 455 460

Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu Tyr Thr Cys Gln Ala Asn
 465 470 475 480

247

Asn Ser Ala Ser Gly His Ser Arg Thr Thr Val Lys Thr Ile Thr Val
 485 490 495

Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro
 500 505 510

Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Ala Gln
 515 520 525

Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser
 530 535 540

Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe Asn
 545 550 555 560

Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys Gly Ile Gln Asn Ser
 565 570 575

Val Ser Ala Asn Arg Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly
 580 585 590

Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp Ser Ser Tyr Leu Ser Gly
 595 600 605

Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser Pro Gln
 610 615 620

Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln His Thr Gln Val Leu
 625 630 635 640

Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr Tyr Ala Cys Phe
 645 650 655

Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser Ile Val Lys Ser Ile
 660 665 670

Thr Val Ser Ala Ser Gly Thr Ser Pro Gly Leu Ser Ala Gly Ala Thr
 675 680 685

Val Gly Ile Met Ile Gly Val Leu Val Gly Val Ala Leu Ile
 690 695 700

<210> 194

<211> 726

<212> PRT

<213> Homo sapien

248

<400> 194

Met Glu Ser Pro Ser Ala Pro Pro His Arg Trp Cys Ile Pro Trp Gln
 1 5 10 15

Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro Pro Thr
 20 25 30

Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly
 35 40 45

Lys Glu Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
 50 55 60

Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile
 65 70 75 80

Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser
 85 90 95

Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile
 100 105 110

Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp
 115 120 125

Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr Pro Glu Leu
 130 135 140

Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro Val Glu Asp Lys
 145 150 155 160

Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Thr Gln Asp Ala Thr Tyr
 165 170 175

Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg Leu Gln
 180 185 190

Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn
 195 200 205

Asp Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn Pro Val Ser Ala Arg
 210 215 220

Arg Ser Asp Ser Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro
 225 230 235 240

Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu Asn Leu Asn
 245 250 255

Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser Trp Phe
 260 265 270

Val Asn Gly Thr Phe Gln Gln Ser Thr Gln Glu Leu Phe Ile Pro Asn
 275 280 285

Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln Ala His Asn Ser
 290 295 300

Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr Ile Thr Val Tyr Ala
 305 310 315 320

Glu Pro Pro Lys Pro Phe Ile Thr Ser Asn Asn Ser Asn Pro Val Glu
 325 330 335

Asp Glu Asp Ala Val Ala Leu Thr Cys Glu Pro Glu Ile Gln Asn Thr
 340 345 350

Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
 355 360 365

Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser Val Thr
 370 375 380

Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile Gln Asn Glu Leu Ser
 385 390 395 400

Val Asp His Ser Asp Pro Val Ile Leu Asn Val Leu Tyr Gly Pro Asp
 405 410 415

Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val Asn
 420 425 430

Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser
 435 440 445

Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr Gln Glu Leu Phe Ile
 450 455 460

Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu Tyr Thr Cys Gln Ala Asn
 465 470 475 480

250

Asn Ser Ala Ser Gly His Ser Arg Thr Thr Val Lys Thr Ile Thr Val
 485 490 495

Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro
 500 505 510

Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Ala Gln
 515 520 525

Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser
 530 535 540

Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe Asn
 545 550 555 560

Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys Gly Ile Gln Asn Ser
 565 570 575

Val Ser Ala Asn Arg Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly
 580 585 590

Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp Ser Ser Tyr Leu Ser Gly
 595 600 605

Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser Pro Gln
 610 615 620

Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln His Thr Gln Val Leu
 625 630 635 640

Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr Tyr Ala Cys Phe
 645 650 655

Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser Ile Val Lys Ser Ile
 660 665 670

Thr Val Ser Asp Ser Cys Phe Ala Ser Ser Leu Lys His Leu Gln Gln
 675 680 685

Leu Gln Ser Lys Ile Ala Ser Leu Pro Arg Ile Phe Thr Glu Lys Thr
 690 695 700

Leu Thr Arg Asp Arg Asp His Pro Ser Gln His Arg Glu Thr Pro Ser
 705 710 715 720

Leu Leu Lys Ile Gln Lys

251

725

<210> 195
 <211> 193
 <212> PRT
 <213> Homo sapien

<400> 195

Met Asp Ala Trp Ser Arg Arg Gly Pro Pro Thr His Thr Arg Gln Ser
 1 5 10 15

Cys His Gly Glu Asn Ser Ser Val Ser Ile Leu Ala Pro Leu Val Ala
 20 25 30

Leu Ser Tyr Thr Leu Ala Arg Asp Thr Thr Val Lys Pro Gly Ala Lys
 35 40 45

Lys Asp Thr Lys Asp Ser Arg Pro Lys Leu Pro Gln Thr Leu Ser Arg
 50 55 60

Gly Trp Gly Asp Gln Leu Ile Trp Thr Gln Thr Tyr Glu Glu Ala Leu
 65 70 75 80

Tyr Lys Ser Lys Thr Ser Asn Lys Pro Leu Met Ile Ile His His Leu
 85 90 95

Asp Glu Cys Pro His Ser Gln Ala Leu Lys Lys Val Phe Ala Glu Asn
 100 105 110

Lys Glu Ile Gln Lys Leu Ala Glu Gln Phe Val Leu Leu Asn Leu Val
 115 120 125

Tyr Glu Thr Thr Asp Lys His Leu Ser Pro Asp Gly Gln Tyr Val Pro
 130 135 140

Arg Ile Met Phe Val Asp Pro Ser Leu Thr Val Arg Ala Asp Ile Thr
 145 150 155 160

Gly Arg Tyr Ser Asn Arg Leu Tyr Ala Tyr Glu Pro Ala Asp Thr Ala
 165 170 175

Leu Leu Leu Asp Asn Met Lys Lys Ala Leu Lys Leu Leu Lys Thr Glu
 180 185 190

Leu

252

<210> 196
 <211> 199
 <212> PRT
 <213> Homo sapien

<400> 196

Cys Arg Ala Ala Gln Cys Asp Gly Cys Val Val Ala Ala Arg Cys Arg
 1 5 10 15

Arg Leu Thr Gln Gly Arg Val Ala Met Glu Lys Ile Pro Val Ser Ala
 20 25 30

Phe Leu Leu Leu Val Ala Leu Ser Tyr Thr Leu Ala Arg Asp Thr Thr
 35 40 45

Val Lys Pro Gly Ala Lys Lys Asp Thr Lys Asp Ser Arg Pro Lys Leu
 50 55 60

Pro Gln Thr Leu Ser Arg Gly Trp Gly Asp Gln Leu Ile Trp Thr Gln
 65 70 75 80

Thr Tyr Glu Glu Ala Leu Tyr Lys Ser Lys Thr Ser Asn Lys Pro Leu
 85 90 95

Met Ile Ile His His Leu Asp Glu Cys Pro His Ser Gln Ala Leu Lys
 100 105 110

Lys Val Phe Ala Glu Asn Lys Glu Ile Gln Lys Leu Ala Glu Gln Phe
 115 120 125

Val Leu Leu Asn Leu Val Tyr Glu Thr Thr Asp Lys His Leu Ser Pro
 130 135 140

Asp Gly Gln Tyr Val Pro Arg Ile Met Phe Val Asp Pro Ser Leu Thr
 145 150 155 160

Val Arg Ala Asp Ile Thr Gly Arg Tyr Ser Asn Arg Leu Tyr Ala Tyr
 165 170 175

Glu Pro Ala Asp Thr Ala Leu Leu Leu Asp Asn Met Lys Lys Ala Leu
 180 185 190

Lys Leu Leu Lys Thr Glu Leu
 195

<210> 197

253

<211> 187
 <212> PRT
 <213> Homo sapien

<400> 197

Met Asp Arg Gly Arg Gly Arg Gly Gln Ser Cys His Gly Glu Asn Ser
 1 5 10 15

Ser Val Ser Ile Leu Ala Pro Leu Val Ala Leu Ser Tyr Thr Leu Ala
 20 25 30

Arg Asp Thr Thr Val Lys Pro Gly Ala Lys Lys Asp Thr Lys Asp Ser
 35 40 45

Arg Pro Lys Leu Pro Gln Thr Leu Ser Arg Gly Trp Gly Asp Gln Leu
 50 55 60

Ile Trp Thr Gln Thr Tyr Glu Glu Ala Leu Tyr Lys Ser Lys Thr Ser
 65 70 75 80

Asn Lys Pro Leu Met Ile Ile His His Leu Asp Glu Cys Pro His Ser
 85 90 95

Gln Ala Leu Lys Lys Val Phe Ala Glu Asn Lys Glu Ile Gln Lys Leu
 100 105 110

Ala Glu Gln Phe Val Leu Leu Asn Leu Val Tyr Glu Thr Thr Asp Lys
 115 120 125

His Leu Ser Pro Asp Gly Gln Tyr Val Pro Arg Ile Met Phe Val Asp
 130 135 140

Pro Ser Leu Thr Val Arg Ala Asp Ile Thr Gly Arg Tyr Ser Asn Arg
 145 150 155 160

Leu Tyr Ala Tyr Glu Pro Ala Asp Thr Ala Leu Leu Leu Asp Asn Met
 165 170 175

Lys Lys Ala Leu Lys Leu Leu Lys Thr Glu Leu
 180 185

<210> 198
 <211> 186
 <212> PRT
 <213> Homo sapien

<400> 198

254

Trp Ile Val Val Ala Ala Glu Val Arg Val Ala Met Glu Lys Ile Pro
 1 5 10 15

Val Ser Ala Phe Leu Leu Leu Val Ala Leu Ser Tyr Thr Leu Ala Arg
 20 25 30

Asp Thr Thr Val Lys Pro Gly Ala Lys Lys Asp Thr Lys Asp Ser Arg
 35 40 45

Pro Lys Leu Pro Gln Thr Leu Ser Arg Gly Trp Gly Asp Gln Leu Ile
 50 55 60

Trp Thr Gln Thr Tyr Glu Glu Ala Leu Tyr Lys Ser Lys Thr Ser Asn
 65 70 75 80

Lys Pro Leu Met Ile Ile His His Leu Asp Glu Cys Pro His Ser Gln
 85 90 95

Ala Leu Lys Lys Val Phe Ala Glu Asn Lys Glu Ile Gln Lys Leu Ala
 100 105 110

Glu Gln Phe Val Leu Leu Asn Leu Val Tyr Glu Thr Thr Asp Lys His
 115 120 125

Leu Ser Pro Asp Gly Gln Tyr Val Pro Arg Ile Met Phe Val Asp Pro
 130 135 140

Ser Leu Thr Val Arg Ala Asp Ile Thr Gly Arg Tyr Ser Asn Arg Leu
 145 150 155 160

Tyr Ala Tyr Glu Pro Ala Asp Thr Ala Leu Leu Leu Asp Asn Met Lys
 165 170 175

Lys Ala Leu Lys Leu Leu Lys Thr Glu Leu
 180 185

<210> 199
 <211> 136
 <212> PRT
 <213> Homo sapien

<220>
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 <222> (110)..(110)
 <223> x=any amino acid

<220>
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255

<222> (121)..(122)
 <223> x=any amino acid

<220>
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 <222> (128)..(128)
 <223> x=any amino acid

<220>
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 <222> (136)..(136)
 <223> x=any amino acid

<400> 199

Ala Arg Thr Arg Glu Val Glu Ile Ala Val Ser Ala Asp Gly Asn Thr
 1 5 10 15

Ala Arg Gln Ser Gly Asn Arg Ala Arg Leu His Leu Lys Lys Lys Arg
 20 25 30

Lys Glu Asp Ser Asp Leu Tyr Ser Gly Ile Gln Val Ser Asp Thr Thr
 35 40 45

Ala Leu Ser Glu Asn Phe Gln Asn Phe Asn Glu Leu Thr Asp Ser Phe
 50 55 60

Met Lys Ser Val His Gln Asp Gln Ala Glu Lys Ile Asn Asn Phe Thr
 65 70 75 80

Gly Ser Ser Asn Gly Leu Tyr Glu Lys Val Leu Phe Ser Ser Ile Phe
 85 90 95

Tyr Leu Glu Ile Leu Leu Asp Ser Leu Ile Cys Leu Val Xaa Pro Asp
 100 105 110

Phe Ser Glu Thr Phe Phe Leu Phe Xaa Xaa Tyr Pro Gln Leu Thr Xaa
 115 120 125

Asn Leu Asp Lys Ile Tyr Phe Xaa
 130 135

<210> 200
 <211> 92
 <212> PRT
 <213> Homo sapien

<220>
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256

<222> (4)..(4)
<223> x=any amino acid

<220>
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<222> (14)..(14)
<223> x=any amino acid

<220>
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<222> (16)..(16)
<223> x=any amino acid

<220>
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<222> (22)..(22)
<223> x=any amino acid

<220>
<221> MISC_FEATURE
<222> (30)..(30)
<223> x=any amino acid

<220>
<221> MISC_FEATURE
<222> (33)..(33)
<223> x=any amino acid

<220>
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<222> (40)..(40)
<223> x=any amino acid

<220>
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<222> (46)..(46)
<223> x=any amino acid

<220>
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<222> (51)..(51)
<223> x=any amino acid

<220>
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<222> (56)..(56)
<223> x=any amino acid

<400> 200

Tyr Val Leu Xaa Ser Gln Ile Ser Ala Lys Leu Phe Phe Xaa Leu Xaa

Val Ser

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<220>
<221> MISC_FEATURE
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258

<222> (1)..(1)
 <223> x=any amino acid

<220>
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 <222> (5)..(5)
 <223> x=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (8)..(9)
 <223> x=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> x=any amino acid

<220>
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 <222> (18)..(18)
 <223> x=any amino acid

<220>
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 <222> (26)..(26)
 <223> x=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (32)..(32)
 <223> x=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (57)..(57)
 <223> x=any amino acid

<400> 202

Xaa Thr Glu Gly Xaa Gly Asp Xaa Xaa Ser Leu Xaa Phe Ser Leu Gln
 1 5 10 15

Gln Xaa Glu Ser Phe Leu His Val Val Xaa Gln Gln Ser Cys Ile Xaa
 20 25 30

Arg Phe Val Ser Ile Glu Thr Ile Arg Ile Ser Ser Ser Asp Ile Gly
 35 40 45

Ser Asn Cys Gln Arg Trp Val Asn Xaa Asp Ile Ile Leu Gly Thr Tyr

259

50

55

60

Trp Pro Ser Gly Glu Arg Cys Cys Gln Leu Phe His Lys Pro Asp
65 70 75

<210> 203
<211> 49
<212> PRT
<213> Homo sapien

<400> 203

Met Glu Lys Ile Pro Val Ser Ala Phe Leu Leu Leu Val Ala Leu Ser
1 5 10 15

Tyr Thr Leu Ala Arg Asp Thr Thr Val Lys Pro Gly Ala Lys Lys Asp
20 25 30

Thr Lys Asp Ser Arg Pro Lys Thr Ala Pro Asp Pro Leu Gln Arg Leu
35 40 45

Gly

<210> 204
<211> 140
<212> PRT
<213> Homo sapien

<220>
<221> MISC_FEATURE
<222> (102)..(102)
<223> x=any amino acid

<220>
<221> MISC_FEATURE
<222> (104)..(105)
<223> x=any amino acid

<220>
<221> MISC_FEATURE
<222> (110)..(110)
<223> x=any amino acid

<220>
<221> MISC_FEATURE
<222> (119)..(119)
<223> x=any amino acid

<220>
<221> MISC_FEATURE

260

<222> (122)..(122)
 <223> x=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (129)..(129)
 <223> x=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (136)..(137)
 <223> x=any amino acid

<400> 204

Gly Asn Pro Glu Leu Pro Trp Arg Lys Phe Gln Cys Gln His Ser Cys
 1 5 10 15

Ser Leu Trp Pro Ser Pro Thr Leu Trp Pro Glu Ile Pro Gln Ser Asn
 20 25 30

Leu Glu Pro Lys Arg Thr Gln Arg Thr Leu Asp Pro Lys Leu Pro Gln
 35 40 45

Thr Leu Ser Arg Gly Trp Gly Asp Gln Leu Ile Trp Thr Gln Thr Tyr
 50 55 60

Glu Glu Ala Leu Tyr Lys Ser Lys Thr Ser Asn Lys Pro Leu Met Ile
 65 70 75 80

Ile His His Leu Asp Glu Cys Pro His Ser Gln Ala Leu Glu Lys Val
 85 90 95

Phe Ala Glu Asn Lys Xaa Ile Xaa Xaa Leu Ala Glu Gln Xaa Val Leu
 100 105 110

Leu Asn Leu Val Tyr Glu Xaa Thr Asp Xaa Pro Phe Leu Leu Met Ala
 115 120 125

Xaa Met Ser Pro Gly Leu Cys Xaa Xaa Thr His Leu
 130 135 140

<210> 205
 <211> 74
 <212> PRT
 <213> Homo sapien

<400> 205

261

Met Asp Arg Ala Ala Pro Gly Arg Ser Ser Arg Arg Leu Thr Gln Gly
 1 5 10 15

Arg Trp Val Arg Lys Ser Arg Val Ala Met Glu Lys Ile Pro Val Ser
 20 25 30

Ala Phe Leu Leu Leu Val Ala Leu Ser Tyr Thr Leu Ala Arg Asp Thr
 35 40 45

Thr Val Lys Pro Gly Ala Lys Lys Asp Thr Lys Asp Ser Arg Pro Lys
 50 55 60

Thr Ala Pro Asp Pro Leu Gln Arg Leu Gly
 65 70

<210> 206
 <211> 140
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<223> x=any amino acid

<400> 206

Gly Asn Pro Glu Leu Pro Trp Arg Lys Phe Gln Cys Gln His Ser Cys
 1 5 10 15

Ser Leu Trp Pro Ser Pro Thr Leu Trp Pro Glu Ile Pro Gln Ser Asn
 20 25 30

Leu Glu Pro Lys Arg Thr Gln Arg Thr Leu Asp Pro Lys Leu Pro Gln
 35 40 45

Thr Leu Ser Arg Gly Trp Gly Asp Gln Leu Ile Trp Thr Gln Thr Tyr
 50 55 60

Glu Glu Ala Leu Tyr Lys Ser Lys Thr Ser Asn Lys Pro Leu Met Ile
 65 70 75 80

Ile His His Leu Asp Glu Cys Pro His Ser Gln Ala Leu Glu Lys Val
 85 90 95

Phe Ala Glu Asn Lys Xaa Ile Xaa Xaa Leu Ala Glu Gln Xaa Val Leu
 100 105 110

Leu Asn Leu Val Tyr Glu Xaa Thr Asp Xaa Pro Phe Leu Leu Met Ala
 115 120 125

Xaa Met Ser Pro Gly Leu Cys Xaa Xaa Thr His Leu
 130 135 140

<210> 207

<211> 74

<212> PRT

<213> Homo sapien

<400> 207

Met Asp Ser Val Val Ala Ala Glu Ala Ser Arg Arg Leu Thr Gln Gly
 1 5 10 15

Arg Trp Val Arg Lys Ser Arg Val Ala Met Glu Lys Ile Pro Val Ser
 20 25 30

Ala Phe Leu Leu Leu Val Ala Leu Ser Tyr Thr Leu Ala Arg Asp Thr
 35 40 45

263

Thr Val Lys Pro Gly Ala Lys Lys Asp Thr Lys Asp Ser Arg Pro Lys
 50 55 60

Thr Ala Pro Asp Pro Leu Gln Arg Leu Gly
 65 70

<210> 208
 <211> 140
 <212> PRT
 <213> Homo sapien

<220>
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 <223> x=any amino acid

<400> 208

Gly Asn Pro Glu Leu Pro Trp Arg Lys Phe Gln Cys Gln His Ser Cys
 1 5 10 15

264

Ser Leu Trp Pro Ser Pro Thr Leu Trp Pro Glu Ile Pro Gln Ser Asn
 20 25 30

Leu Glu Pro Lys Arg Thr Gln Arg Thr Leu Asp Pro Lys Leu Pro Gln
 35 40 45

Thr Leu Ser Arg Gly Trp Gly Asp Gln Leu Ile Trp Thr Gln Thr Tyr
 50 55 60

Glu Glu Ala Leu Tyr Lys Ser Lys Thr Ser Asn Lys Pro Leu Met Ile
 65 70 75 80

Ile His His Leu Asp Glu Cys Pro His Ser Gln Ala Leu Glu Lys Val
 85 90 95

Phe Ala Glu Asn Lys Xaa Ile Xaa Xaa Leu Ala Glu Gln Xaa Val Leu
 100 105 110

Leu Asn Leu Val Tyr Glu Xaa Thr Asp Xaa Pro Phe Leu Leu Met Ala
 115 120 125

Xaa Met Ser Pro Gly Leu Cys Xaa Xaa Thr His Leu
 130 135 140

<210> 209
 <211> 128
 <212> PRT
 <213> Homo sapien

<400> 209

Met Asp Ser Val Val Ala Ala Glu Val Leu Tyr Lys Ser Lys Thr Ser
 1 5 10 15

Asn Lys Pro Leu Met Ile Ile His His Leu Asp Glu Cys Pro His Ser
 20 25 30

Gln Ala Leu Glu Lys Val Phe Ala Glu Asn Lys Glu Ile His Thr His
 35 40 45

Cys Ala Glu Gln Leu Val Pro Ala Ser His Leu Val Tyr Glu Thr Ile
 50 55 60

Val Thr Thr His Leu Ser Pro Asp Gly Gln Tyr Val Pro Arg Ile Met
 65 70 75 80

265

Phe Val Asp Pro Leu Ser Asp Asn Leu Ser Arg Tyr His Leu Glu Asp
85 90 95

Ile Pro Ile Arg Leu Tyr Ala Tyr Glu Ser Leu Gln Ile Gln Leu Cys
100 105 110

Cys Leu Thr Asn Met Lys Lys Ala Phe Lys Leu Leu Lys Thr Glu Leu
115 120 125

<210> 210

<211> 84

<212> PRT

<213> Homo sapien

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<223> x=any amino acid

<400> 210

266

Ser Val Met Asp Ser Val Val Ala Ala Glu Val Leu Tyr Lys Ser Lys
 1 5 10 15

Thr Ser Asn Lys Pro Leu Met Ile Ile His His Leu Asp Glu Cys Pro
 20 25 30

His Ser Gln Ala Leu Glu Lys Val Phe Ala Glu Asn Lys Xaa Ile Xaa
 35 40 45

Xaa Leu Ala Glu Gln Xaa Val Leu Leu Asn Leu Val Tyr Glu Xaa Thr
 50 55 60

Asp Xaa Pro Phe Leu Leu Met Ala Xaa Met Ser Pro Gly Leu Cys Xaa
 65 70 75 80

Xaa Thr His Leu

<210> 211
 <211> 118
 <212> PRT
 <213> Homo sapien

<400> 211

Met Asp Trp Ser Arg Pro Arg Tyr Pro Asp Ala Thr Asp Glu Asp Ile
 1 5 10 15

Thr Ser His Met Glu Ser Glu Glu Leu Asn Gly Ala Tyr Lys Ala Ile
 20 25 30

Pro Val Ala Gln Asp Leu Asn Ala Pro Ser Asp Trp Asp Ser Arg Gly
 35 40 45

Lys Asp Ser Tyr Glu Thr Ser Gln Leu Asp Asp Gln Ser Ala Glu Thr
 50 55 60

His Ser His Lys Gln Ser Arg Leu Tyr Lys Arg Lys Ala Asn Asp Glu
 65 70 75 80

Ser Asn Glu His Ser Asp Val Ile Asp Ser Gln Glu Leu Ser Lys Val
 85 90 95

Ser Arg Glu Phe His Ser His Glu Phe His Ser His Glu Asp Met Leu
 100 105 110

Val Val Asp Pro Gln Lys
 115

267

<210> 212
 <211> 117
 <212> PRT
 <213> Homo sapien

<400> 212

Trp Met Ser Arg Pro Arg Tyr Pro Asp Ala Thr Asp Glu Asp Ile Thr
 1 5 10 15

Ser His Met Glu Ser Glu Glu Leu Asn Gly Ala Tyr Lys Ala Ile Pro
 20 25 30

Val Ala Gln Asp Leu Asn Ala Pro Ser Asp Trp Asp Ser Arg Gly Lys
 35 40 45

Asp Ser Tyr Glu Thr Ser Gln Leu Asp Asp Gln Ser Ala Glu Thr His
 50 55 60

Ser His Lys Gln Ser Arg Leu Tyr Lys Arg Lys Ala Asn Asp Glu Ser
 65 70 75 80

Asn Glu His Ser Asp Val Ile Asp Ser Gln Glu Leu Ser Lys Val Ser
 85 90 95

Arg Glu Phe His Ser His Glu Phe His Ser His Glu Asp Met Leu Val
 100 105 110

Val Asp Pro Gln Lys
 115

<210> 213
 <211> 75
 <212> PRT
 <213> Homo sapien

<400> 213

Met His Ile Gln Lys Ile Phe Val Ile Ile Thr Phe Ser Lys His Ile
 1 5 10 15

Val Glu Gln Met Val Ala Phe Ile Gly Leu Glu Asp Asn Gly Ala Leu
 20 25 30

Gln Pro Pro Pro Pro Ser Ala Val Pro Gly Ile Gly Pro Ser Leu Gln
 35 40 45

Lys Pro Phe Gln Glu Tyr Leu Glu Ala Gln Arg Gln Lys Leu His His

268

50

55

60

Lys Ser Glu Met Gly Thr Pro Gln Val Arg Leu
 65 70 75

<210> 214
 <211> 143
 <212> PRT
 <213> Homo sapien

<400> 214

Met Arg Ser His Thr Ala Pro Gln Pro Leu Ser Gly Thr Phe Leu Asp
 1 5 10 15

Leu Leu Trp Cys Asn Pro Asn Trp Lys Ser Asn Asn Lys Asn Ala Tyr
 20 25 30

Pro Glu Asn Phe Cys Tyr Asn Asn Ile Gln Gln Ala His Ser Gly Ala
 35 40 45

Asn Gly Gly Phe His Trp Ala Gly Gly Gln Trp Arg Thr Ala Thr Ser
 50 55 60

Thr Ser Gln Cys Cys Pro Arg His Arg Ser Ile Ser Ala Glu Ala Ile
 65 70 75 80

Ser Gly Val Pro Gly Gly Ser Thr Ala Glu Ala Ser Pro Gln Lys Arg
 85 90 95

Asn Gly His Thr Thr Gly Lys Thr Leu Ile Arg Phe Leu Leu Pro Ser
 100 105 110

Gly Lys Phe Arg Ala Glu Ile Thr Phe Thr Ala Leu Thr His Ile Phe
 115 120 125

Arg Gln Ile Ser Glu Val Gly Leu Pro Val Phe Leu Asp Arg Ser
 130 135 140

<210> 215
 <211> 113
 <212> PRT
 <213> Homo sapien

<400> 215

Gly Asp Ser Glu Asp Pro Arg Phe Asp Pro Asp Gly Pro Gly Ser Ser
 1 5 10 15

269

Thr Cys Ala Leu Ala Arg Arg Arg Gln Leu Gly Pro Ser Gln Gly Arg
 20 25 30

Ser Thr Ser Arg Cys Pro Ser Trp Arg Val Leu Cys Arg Trp Ser Gln
 35 40 45

Leu Pro Ser Arg Leu Tyr Ile Leu Leu Arg Ser Gln Ser Trp Lys Met
 50 55 60

Ser Ile Ser Phe Ser Ser Val Arg Trp Ala Ser Gly Ala Ser Arg Pro
 65 70 75 80

Arg Ser Trp Pro Gly Val Leu Asp Thr Leu Gly Leu Ala Thr Thr Leu
 85 90 95

Glu Pro Ile Glu Asn Gly Trp Arg Lys Arg Val Arg Gln Glu Ala Ala
 100 105 110

Tyr

<210> 216
 <211> 210
 <212> PRT
 <213> Homo sapien

<400> 216

Met Ala Gln Val Pro Pro Gly Thr Pro Arg Arg Gly Leu Pro Arg His
 1 5 10 15

Gln Gly Leu Gly His Ala Thr His Leu His Gln Ala Val Phe Cys Trp
 20 25 30

Val Ala Glu Gly Met Arg Ala Asp Thr Thr Cys Ser Pro Arg Val Ala
 35 40 45

Val Gly Thr Ala Ala Glu Gly Leu Leu Leu Arg Val His Met Trp Gly
 50 55 60

Lys Glu Met Leu Gln Ala Pro Arg Gly Arg Ala Arg Ala Ala Leu Arg
 65 70 75 80

Arg Leu Ala Val Ala Thr Arg Thr Met Ala Gly Gly Cys Arg Ala Pro
 85 90 95

Ser Ser Ala Pro Thr Val Ser Leu Pro Glu Leu Arg Ser Leu Leu Ala
 100 105 110

270

Ser Gly Arg Ala Arg Leu Phe Asp Val Arg Ser Arg Glu Glu Ala Ala
 115 120 125

Ala Gly Thr Ile Pro Gly Ala Leu Asn Ile Pro Val Ser Glu Leu Glu
 130 135 140

Ser Ala Leu Gln Met Glu Pro Ala Ala Phe Gln Ala Leu Tyr Ser Ala
 145 150 155 160

Glu Lys Pro Lys Leu Glu Asp Glu His Leu Val Phe Phe Cys Gln Met
 165 170 175

Gly Lys Arg Gly Leu Gln Ala Thr Gln Leu Ala Arg Ser Leu Gly Tyr
 180 185 190

Thr Gly Ala Arg Asn Tyr Ala Gly Ala Tyr Arg Glu Trp Leu Glu Lys
 195 200 205

Glu Ser
 210

<210> 217
 <211> 173
 <212> PRT
 <213> Homo sapien

<400> 217

Gly Gln Thr Pro Arg Val Ala Leu Gly Trp Gln Trp Ala Leu Gln Gln
 1 5 10 15

Arg Gly Cys Cys Ser Glu Ser Thr Cys Gly Gly Arg Glu Met Leu Gln
 20 25 30

Ala Pro Arg Gly Arg Ala Arg Ala Ala Leu Arg Arg Leu Ala Val Ala
 35 40 45

Thr Arg Thr Met Ala Gly Gly Cys Arg Ala Pro Ser Ser Ala Pro Thr
 50 55 60

Val Ser Leu Pro Glu Leu Arg Ser Leu Leu Ala Ser Gly Arg Ala Arg
 65 70 75 80

Leu Phe Asp Val Arg Ser Arg Glu Glu Ala Ala Ala Gly Thr Ile Pro
 85 90 95

271

Gly Ala Leu Asn Ile Pro Val Ser Glu Leu Glu Ser Ala Leu Gln Met
 100 105 110

Glu Pro Ala Ala Phe Gln Ala Leu Tyr Ser Ala Glu Lys Pro Lys Leu
 115 120 125

Glu Asp Glu His Leu Val Phe Phe Cys Gln Met Gly Lys Arg Gly Leu
 130 135 140

Gln Ala Thr Gln Leu Ala Arg Ser Leu Gly Tyr Thr Gly Ala Arg Asn
 145 150 155 160

Tyr Ala Gly Ala Tyr Arg Glu Trp Leu Glu Lys Glu Ser
 165 170

<210> 218
 <211> 189
 <212> PRT
 <213> Homo sapien

<400> 218

Met Ala Gln Val Pro Pro Gly Thr Pro Arg Arg Gly Leu Pro Arg His
 1 5 10 15

Gln Gly Leu Gly His Ala Thr His Leu His Gln Ala Val Phe Cys Trp
 20 25 30

Val Ala Glu Gly Met Arg Ala Asp Thr Thr Cys Ser Pro Arg Val Ala
 35 40 45

Val Gly Thr Ala Ala Glu Gly Leu Leu Leu Arg Val His Met Trp Gly
 50 55 60

Lys Glu Met Leu Gln Ala Pro Arg Gly Arg Ala Arg Ala Ala Leu Arg
 65 70 75 80

Arg Leu Ala Val Ala Thr Arg Thr Met Ala Gly Ala Gly Arg Ala Arg
 85 90 95

Leu Phe Asp Val Arg Ser Arg Glu Glu Ala Ala Ala Gly Thr Ile Pro
 100 105 110

Gly Ala Leu Asn Ile Pro Val Ser Glu Leu Glu Ser Ala Leu Gln Met
 115 120 125

Glu Pro Ala Ala Phe Gln Ala Leu Tyr Ser Ala Glu Lys Pro Lys Leu
 130 135 140

272

Glu Asp Glu His Leu Val Phe Phe Cys Gln Met Gly Lys Arg Gly Leu
 145 150 155 160

Gln Ala Thr Gln Leu Ala Arg Ser Leu Gly Tyr Thr Gly Ala Arg Asn
 165 170 175

Tyr Ala Gly Ala Tyr Arg Glu Trp Leu Glu Lys Glu Ser
 180 185

<210> 219
 <211> 152
 <212> PRT
 <213> Homo sapien

<400> 219

Gly Gln Thr Pro Arg Val Ala Leu Gly Trp Gln Trp Ala Leu Gln Gln
 1 5 10 15

Arg Gly Cys Cys Ser Glu Ser Thr Cys Gly Gly Arg Glu Met Leu Gln
 20 25 30

Ala Pro Arg Gly Arg Ala Arg Ala Ala Leu Arg Arg Leu Ala Val Ala
 35 40 45

Thr Arg Thr Met Ala Gly Ala Gly Arg Ala Arg Leu Phe Asp Val Arg
 50 55 60

Ser Arg Glu Glu Ala Ala Ala Gly Thr Ile Pro Gly Ala Leu Asn Ile
 65 70 75 80

Pro Val Ser Glu Leu Glu Ser Ala Leu Gln Met Glu Pro Ala Ala Phe
 85 90 95

Gln Ala Leu Tyr Ser Ala Glu Lys Pro Lys Leu Glu Asp Glu His Leu
 100 105 110

Val Phe Phe Cys Gln Met Gly Lys Arg Gly Leu Gln Ala Thr Gln Leu
 115 120 125

Ala Arg Ser Leu Gly Tyr Thr Gly Ala Arg Asn Tyr Ala Gly Ala Tyr
 130 135 140

Arg Glu Trp Leu Glu Lys Glu Ser
 145 150

273

<210> 220
 <211> 105
 <212> PRT
 <213> Homo sapien

<400> 220

Met Leu Gln Ala Pro Arg Gly Pro Gly Arg Ala Arg Leu Phe Asp Val
 1 5 10 15

Arg Ser Arg Glu Glu Ala Ala Ala Gly Thr Ile Pro Gly Ala Leu Asn
 20 25 30

Ile Pro Val Ser Glu Leu Glu Ser Ala Leu Gln Met Glu Pro Ala Ala
 35 40 45

Phe Gln Ala Leu Tyr Ser Ala Glu Lys Pro Lys Leu Glu Asp Glu His
 50 55 60

Leu Val Phe Phe Cys Gln Met Gly Lys Arg Gly Leu Gln Ala Thr Gln
 65 70 75 80

Leu Ala Arg Ser Leu Gly Tyr Thr Gly Ala Arg Asn Tyr Ala Gly Ala
 85 90 95

Tyr Arg Glu Trp Leu Glu Lys Glu Ser
 100 105

<210> 221
 <211> 112
 <212> PRT
 <213> Homo sapien

<400> 221

Arg Cys Cys Arg Arg Arg Glu Asp Pro Asp Gly Pro Gly Ser Ser Thr
 1 5 10 15

Cys Ala Leu Ala Arg Arg Arg Gln Leu Gly Pro Ser Gln Gly Arg Ser
 20 25 30

Thr Ser Arg Cys Pro Ser Trp Arg Val Leu Cys Arg Trp Ser Gln Leu
 35 40 45

Pro Ser Arg Leu Tyr Ile Leu Leu Arg Ser Gln Ser Trp Lys Met Ser
 50 55 60

Ile Ser Phe Ser Ser Val Arg Trp Ala Ser Gly Ala Ser Arg Pro Arg
 65 70 75 80

Ser Trp Pro Gly Val Leu Asp Thr Leu Gly Leu Ala Thr Thr Leu Glu
85 90 95

Pro Ile Glu Asn Gly Trp Arg Lys Arg Val Arg Gln Glu Ala Ala Tyr
100 105 110

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<210> 222
<211> 131
<212> PRT
<213> Homo sapien
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Met Ala Ala Val Thr Pro Arg Pro Pro Leu Pro Glu Gly Cys Arg Ala
1 5 10 15

Pro Ser Ser Ala Pro Thr Val Ser Leu Pro Glu Leu Arg Ser Leu Leu
20 25 30

Ala Ser Gly Arg Ala Arg Leu Phe Asp Val Arg Ser Arg Glu Glu Ala
35 40 45

Ala Ala Gly Thr Ile Pro Gly Ala Leu Asn Ile Pro Val Ser Glu Leu
50 55 60

Glu Ser Ala Leu Gln Met Glu Pro Ala Ala Phe Gln Ala Leu Tyr Ser
65 70 75 80

Ala Glu Lys Pro Lys Leu Glu Asp Glu His Leu Val Phe Phe Cys Gln
85 90 95

Met Gly Lys Arg Gly Leu Gln Ala Thr Gln Leu Ala Arg Ser Leu Gly
100 105 110

Tyr Thr Gly Ala Arg Asn Tyr Ala Gly Ala Tyr Arg Glu Trp Leu Glu
115 120 125

Lys Glu Ser
130

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<210> 223
<211> 108
<212> PRT
<213> Homo sapien
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Met Val Ile Ile Cys Cys Leu Gly Ala Pro Arg Thr Gln Pro Phe Gln
1 5 10 15

275

Ala Gln Leu Pro Asn Leu Ser Ala Lys Leu Leu Ala Phe Pro Ser Thr
 20 25 30

Leu Ser Thr Pro Pro Val Ser Glu Leu Glu Ser Ala Leu Gln Met Glu
 35 40 45

Pro Ala Ala Phe Gln Ala Leu Tyr Ser Ala Glu Lys Pro Lys Leu Glu
 50 55 60

Asp Glu His Leu Val Phe Phe Cys Gln Met Gly Lys Arg Gly Leu Gln
 65 70 75 80

Ala Thr Gln Leu Ala Arg Ser Leu Gly Tyr Thr Gly Ala Arg Asn Tyr
 85 90 95

Ala Gly Ala Tyr Arg Glu Trp Leu Glu Lys Glu Ser
 100 105

<210> 224
 <211> 132
 <212> PRT
 <213> Homo sapien

<400> 224

Gly Lys Ala Leu Cys His Pro Gln Ile Ala Met Ala Gln Val Pro Pro
 1 5 10 15

Gly Thr Pro Arg Arg Gly Leu Pro Arg His Gln Gly Leu Gly His Ala
 20 25 30

Thr His Leu His Gln Ala Val Phe Cys Trp Val Ala Glu Gly Met Arg
 35 40 45

Ala Asp Thr Thr Cys Ser Pro Arg Val Ala Val Gly Thr Ala Ala Glu
 50 55 60

Gly Leu Leu Leu Arg Val His Met Trp Gly Lys Gly Asp Val Ala Gly
 65 70 75 80

Ala Glu Arg Ala Gly Gln Gly Arg Thr Pro Glu Thr Arg Gly Cys Tyr
 85 90 95

Ala His His Gly Trp Arg Tyr Leu Arg Gly Ile Pro Gly Ala Ala Val
 100 105 110

276

Leu Leu Val Leu Trp Val Glu Ala Trp Gln Gly Val Gly Trp Arg Thr
 115 120 125

Lys Gly Arg Gly
 130

<210> 225
 <211> 162
 <212> PRT
 <213> Homo sapien

<400> 225

Met Ala Gln Val Pro Pro Gly Thr Pro Arg Arg Gly Leu Pro Arg His
 1 5 10 15

Gln Gly Leu Gly His Ala Thr His Leu His Gln Ala Val Phe Cys Trp
 20 25 30

Val Ala Glu Gly Met Arg Ala Asp Thr Thr Cys Ser Pro Arg Val Ala
 35 40 45

Val Gly Thr Ala Ala Glu Gly Leu Leu Leu Arg Val His Met Trp Gly
 50 55 60

Lys Glu Met Leu Gln Ala Pro Arg Gly Arg Ala Arg Ala Ala Leu Arg
 65 70 75 80

Arg Leu Ala Val Ala Thr Arg Thr Met Ala Gly Val Ser Glu Leu Glu
 85 90 95

Ser Ala Leu Gln Met Glu Pro Ala Ala Phe Gln Ala Leu Tyr Ser Ala
 100 105 110

Glu Lys Pro Lys Leu Glu Asp Glu His Leu Val Phe Phe Cys Gln Met
 115 120 125

Gly Lys Arg Gly Leu Gln Ala Thr Gln Leu Ala Arg Ser Leu Gly Tyr
 130 135 140

Thr Gly Ala Arg Asn Tyr Ala Gly Ala Tyr Arg Glu Trp Leu Glu Lys
 145 150 155 160

Glu Ser

<210> 226
 <211> 125

277

<212> PRT

<213> Homo sapien

<400> 226

Gly Gln Thr Pro Arg Val Ala Leu Gly Trp Gln Trp Ala Leu Gln Gln
 1 5 10 15

Arg Gly Cys Cys Ser Glu Ser Thr Cys Gly Gly Arg Glu Met Leu Gln
 20 25 30

Ala Pro Arg Gly Arg Ala Arg Ala Ala Leu Arg Arg Leu Ala Val Ala
 35 40 45

Thr Arg Thr Met Ala Gly Val Ser Glu Leu Glu Ser Ala Leu Gln Met
 50 55 60

Glu Pro Ala Ala Phe Gln Ala Leu Tyr Ser Ala Glu Lys Pro Lys Leu
 65 70 75 80

Glu Asp Glu His Leu Val Phe Phe Cys Gln Met Gly Lys Arg Gly Leu
 85 90 95

Gln Ala Thr Gln Leu Ala Arg Ser Leu Gly Tyr Thr Gly Ala Arg Asn
 100 105 110

Tyr Ala Gly Ala Tyr Arg Glu Trp Leu Glu Lys Glu Ser
 115 120 125

<210> 227

<211> 1815

<212> PRT

<213> Homo sapien

<400> 227

Met Asn Ser Leu Ile Tyr Asn Val Ser Asn Tyr Gln Ser Phe Ile Val
 1 5 10 15

His Pro Ser Ser Thr Ser Ala Ser Phe Glu Gly Glu Cys Glu Val Arg
 20 25 30

Gln Asp Pro Arg Ser Pro Ser Arg Phe Leu Val Phe Phe Tyr Pro Glu
 35 40 45

Asp Val Arg Gln Lys Val Leu Glu Arg Lys Asn His Glu Leu Val Trp
 50 55 60

Gln Gly Lys Gly Thr Phe Lys Leu Thr Val Gln Leu Pro Ala Thr Pro

278

65		70		75		80									
Asp	Glu	Ile	Asp	His	Val	Phe	Glu	Glu	Glu	Leu	Leu	Thr	Lys	Glu	Ser
				85					90					95	
Lys	Thr	Lys	Glu	Asp	Val	Lys	Glu	Pro	Asp	Val	Ser	Glu	Glu	Leu	Asp
			100					105					110		
Thr	Lys	Leu	Pro	Leu	Asp	Gly	Gly	Leu	Asp	Lys	Met	Glu	Asp	Ile	Pro
		115					120					125			
Glu	Glu	Cys	Glu	Asn	Ile	Ser	Ser	Leu	Val	Ala	Phe	Glu	Asn	Leu	Lys
	130					135					140				
Ala	Asn	Val	Thr	Asp	Ile	Met	Leu	Ile	Leu	Leu	Val	Glu	Asn	Ile	Ser
145					150					155					160
Gly	Leu	Ser	Asn	Asp	Asp	Phe	Gln	Val	Glu	Ile	Ile	Arg	Asp	Phe	Asp
				165					170					175	
Val	Ala	Val	Val	Thr	Phe	Gln	Lys	His	Ile	Asp	Thr	Ile	Arg	Phe	Val
			180					185					190		
Asp	Asp	Cys	Thr	Lys	His	His	Ser	Ile	Lys	Gln	Leu	Gln	Leu	Ser	Pro
		195					200					205			
Arg	Leu	Leu	Glu	Val	Thr	Asn	Thr	Ile	Arg	Val	Glu	Asn	Leu	Pro	Pro
	210					215					220				
Gly	Ala	Asp	Asp	Tyr	Ser	Leu	Lys	Leu	Phe	Phe	Glu	Asn	Pro	Tyr	Asn
225					230					235					240
Gly	Gly	Gly	Arg	Val	Ala	Asn	Val	Glu	Tyr	Phe	Pro	Glu	Glu	Ser	Ser
				245					250					255	
Ala	Leu	Ile	Glu	Phe	Phe	Asp	Arg	Lys	Val	Leu	Asp	Thr	Ile	Met	Ala
			260					265					270		
Thr	Lys	Leu	Asp	Phe	Asn	Lys	Met	Pro	Leu	Ser	Val	Phe	Pro	Tyr	Tyr
		275					280					285			
Ala	Ser	Leu	Gly	Thr	Ala	Leu	Tyr	Gly	Lys	Glu	Lys	Pro	Leu	Ile	Lys
	290					295					300				
Leu	Pro	Ala	Pro	Phe	Glu	Glu	Ser	Leu	Asp	Leu	Pro	Leu	Trp	Lys	Phe
305					310					315					320

279

Leu Gln Lys Lys Asn His Leu Ile Glu Glu Ile Asn Asp Glu Met Arg
 325 330 335

Arg Cys His Cys Glu Leu Thr Trp Ser Gln Leu Ser Gly Lys Val Thr
 340 345 350

Ile Arg Pro Ala Ala Thr Leu Val Asn Glu Gly Arg Pro Arg Ile Lys
 355 360 365

Thr Trp Gln Ala Asp Thr Ser Thr Thr Leu Ser Ser Ile Arg Ser Lys
 370 375 380

Tyr Lys Val Asn Pro Ile Lys Val Asp Pro Thr Met Trp Asp Thr Ile
 385 390 395 400

Lys Asn Asp Val Lys Asp Asp Arg Ile Leu Ile Glu Phe Asp Thr Leu
 405 410 415

Lys Glu Met Val Ile Leu Ala Gly Lys Ser Glu Asp Val Gln Ser Ile
 420 425 430

Glu Val Gln Val Arg Glu Leu Ile Glu Ser Thr Thr Gln Lys Ile Lys
 435 440 445

Arg Glu Glu Gln Ser Leu Lys Glu Lys Met Ile Ile Ser Pro Gly Arg
 450 455 460

Tyr Phe Leu Leu Cys His Ser Ser Leu Leu Asp His Leu Leu Thr Glu
 465 470 475 480

Cys Pro Glu Ile Glu Ile Cys Tyr Asp Arg Val Thr Gln His Leu Cys
 485 490 495

Leu Lys Gly Pro Ser Ala Asp Val Tyr Lys Ala Lys Cys Glu Ile Gln
 500 505 510

Glu Lys Val Tyr Thr Met Ala Gln Lys Asn Ile Gln Val Ser Pro Glu
 515 520 525

Ile Phe Gln Phe Leu Gln Gln Val Asn Trp Lys Glu Phe Ser Lys Cys
 530 535 540

Leu Phe Ile Ala Gln Lys Ile Leu Ala Leu Tyr Glu Leu Glu Gly Thr
 545 550 555 560

280

Thr Val Leu Leu Thr Ser Cys Ser Ser Glu Ala Leu Leu Glu Ala Glu
565 570 575

Lys Gln Met Leu Ser Ala Leu Asn Tyr Lys Arg Ile Glu Val Glu Asn
580 585 590

Lys Glu Val Leu His Gly Lys Lys Trp Lys Gly Leu Thr His Asn Leu
595 600 605

Leu Lys Lys Gln Asn Ser Ser Pro Asn Thr Val Ile Ile Asn Glu Leu
610 615 620

Thr Ser Glu Thr Thr Ala Glu Val Ile Ile Thr Gly Cys Val Lys Glu
625 630 635 640

Val Asn Glu Thr Tyr Lys Leu Leu Phe Asn Phe Val Glu Gln Asn Met
645 650 655

Lys Ile Glu Arg Leu Val Glu Val Lys Pro Ser Leu Val Ile Asp Tyr
660 665 670

Leu Lys Thr Glu Lys Lys Leu Phe Trp Pro Lys Ile Lys Lys Val Asn
675 680 685

Val Gln Val Ser Phe Asn Pro Glu Asn Lys Gln Lys Gly Ile Leu Leu
690 695 700

Thr Gly Ser Lys Thr Glu Val Leu Lys Ala Val Asp Ile Val Lys Gln
705 710 715 720

Val Trp Asp Ser Val Cys Val Lys Ser Val His Thr Asp Lys Pro Gly
725 730 735

Ala Lys Gln Phe Phe Gln Asp Lys Ala Arg Phe Tyr Gln Ser Glu Ile
740 745 750

Lys Arg Leu Phe Gly Cys Tyr Ile Glu Leu Gln Glu Asn Glu Val Met
755 760 765

Lys Glu Gly Gly Ser Pro Ala Gly Gln Lys Cys Phe Ser Arg Thr Val
770 775 780

Leu Ala Pro Gly Val Val Leu Ile Val Gln Gln Gly Asp Leu Ala Arg
785 790 795 800

281

Leu Pro Val Asp Val Val Val Asn Ala Ser Asn Glu Asp Leu Lys His
 805 810 815

Tyr Gly Gly Leu Ala Ala Ala Leu Ser Lys Ala Ala Gly Pro Glu Leu
 820 825 830

Gln Ala Asp Cys Asp Gln Ile Val Lys Arg Glu Gly Arg Leu Leu Pro
 835 840 845

Gly Asn Ala Thr Ile Ser Lys Ala Gly Lys Leu Pro Tyr His His Val
 850 855 860

Ile His Ala Val Gly Pro Arg Trp Ser Gly Tyr Glu Ala Pro Arg Cys
 865 870 875 880

Val Tyr Leu Leu Arg Arg Ala Val Gln Leu Ser Leu Cys Leu Ala Glu
 885 890 895

Lys Tyr Lys Tyr Arg Ser Ile Ala Ile Pro Ala Ile Ser Ser Gly Val
 900 905 910

Phe Gly Phe Pro Leu Gly Arg Cys Val Glu Thr Ile Val Ser Ala Ile
 915 920 925

Lys Glu Asn Phe Gln Phe Lys Lys Asp Gly His Cys Leu Lys Glu Ile
 930 935 940

Tyr Leu Val Asp Val Ser Glu Lys Thr Val Glu Ala Phe Ala Glu Ala
 945 950 955 960

Val Lys Thr Val Phe Lys Ala Thr Leu Pro Asp Thr Ala Ala Pro Pro
 965 970 975

Gly Leu Pro Pro Ala Ala Ala Gly Pro Gly Lys Thr Ser Trp Glu Lys
 980 985 990

Gly Ser Leu Val Ser Pro Gly Gly Leu Gln Met Leu Leu Val Lys Glu
 995 1000 1005

Gly Val Gln Asn Ala Lys Thr Asp Val Val Val Asn Ser Val Pro
 1010 1015 1020

Leu Asp Leu Val Leu Ser Arg Gly Pro Leu Ser Lys Ser Leu Leu
 1025 1030 1035

Glu Lys Ala Gly Pro Glu Leu Gln Glu Glu Leu Asp Thr Val Gly

282

1040		1045		1050
Gln Gly Val Ala Val Ser Met Gly Thr Val Leu Lys Thr Ser Ser				
1055		1060		1065
Trp Asn Leu Asp Cys Arg Tyr Val Leu His Val Val Ala Pro Glu				
1070		1075		1080
Trp Arg Asn Gly Ser Thr Ser Ser Leu Lys Ile Met Glu Asp Ile				
1085		1090		1095
Ile Arg Glu Cys Met Glu Ile Thr Glu Ser Leu Ser Leu Lys Ser				
1100		1105		1110
Ile Ala Phe Pro Ala Ile Gly Thr Gly Asn Leu Gly Phe Pro Lys				
1115		1120		1125
Asn Ile Phe Ala Glu Leu Ile Ile Ser Glu Val Phe Lys Phe Ser				
1130		1135		1140
Ser Lys Asn Gln Leu Lys Thr Leu Gln Glu Val His Phe Leu Leu				
1145		1150		1155
His Pro Ser Asp His Glu Asn Ile Gln Ala Phe Ser Asp Glu Phe				
1160		1165		1170
Ala Arg Arg Ala Asn Gly Asn Leu Val Ser Asp Lys Ile Pro Lys				
1175		1180		1185
Ala Lys Asp Thr Gln Gly Phe Tyr Gly Thr Val Ser Ser Pro Asp				
1190		1195		1200
Ser Gly Val Tyr Glu Met Lys Ile Gly Ser Ile Ile Phe Gln Val				
1205		1210		1215
Ala Ser Gly Asp Ile Thr Lys Glu Glu Ala Asp Val Ile Val Asn				
1220		1225		1230
Ser Thr Ser Asn Ser Phe Asn Leu Lys Ala Gly Val Ser Lys Ala				
1235		1240		1245
Ile Leu Glu Cys Ala Gly Gln Asn Val Glu Arg Glu Cys Ser Gln				
1250		1255		1260
Gln Ala Gln Gln Arg Lys Asn Asp Tyr Ile Ile Thr Gly Gly Gly				
1265		1270		1275

Phe	Leu	Arg	Cys	Lys	Asn	Ile	Ile	His	Val	Ile	Gly	Gly	Asn	Asp
1280						1285					1290			
Val	Lys	Ser	Ser	Val	Ser	Ser	Val	Leu	Gln	Glu	Cys	Glu	Lys	Lys
1295						1300					1305			
Asn	Tyr	Ser	Ser	Ile	Cys	Leu	Pro	Ala	Ile	Gly	Thr	Gly	Asn	Ala
1310						1315					1320			
Lys	Gln	His	Pro	Asp	Lys	Val	Ala	Glu	Ala	Ile	Ile	Asp	Ala	Ile
1325						1330					1335			
Glu	Asp	Phe	Val	Gln	Lys	Gly	Ser	Ala	Gln	Ser	Val	Lys	Lys	Val
1340						1345					1350			
Lys	Val	Val	Ile	Phe	Leu	Pro	Gln	Val	Leu	Asp	Val	Phe	Tyr	Ala
1355						1360					1365			
Asn	Met	Lys	Lys	Arg	Glu	Gly	Thr	Gln	Leu	Ser	Ser	Gln	Gln	Ser
1370						1375					1380			
Val	Met	Ser	Lys	Leu	Ala	Cys	Glu	Phe	Phe	Val	Phe	Met	Lys	Cys
1385						1390					1395			
Met	Phe	Ile	Thr	Leu	Met	Ser	His	Val	Lys	Tyr	Leu	Ile	Phe	Leu
1400						1405					1410			
Phe	Phe	Leu	Ala	Phe	Leu	Gly	Phe	Ser	Lys	Gln	Ser	Pro	Gln	Lys
1415						1420					1425			
Lys	Asn	His	Leu	Val	Leu	Glu	Lys	Lys	Thr	Glu	Ser	Ala	Thr	Phe
1430						1435					1440			
Arg	Val	Cys	Gly	Glu	Asn	Val	Thr	Cys	Val	Glu	Tyr	Ala	Ile	Ser
1445						1450					1455			
Trp	Leu	Gln	Asp	Leu	Ile	Glu	Lys	Glu	Gln	Cys	Pro	Tyr	Thr	Ser
1460						1465					1470			
Glu	Asp	Glu	Cys	Ile	Lys	Asp	Phe	Asp	Glu	Lys	Glu	Tyr	Gln	Glu
1475						1480					1485			
Leu	Asn	Glu	Leu	Gln	Lys	Lys	Leu	Asn	Ile	Asn	Ile	Ser	Leu	Asp
1490						1495					1500			

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His	Lys	Arg	Pro	Leu	Ile	Lys	Val	Leu	Gly	Ile	Ser	Arg	Asp	Val
1505						1510					1515			
Met	Gln	Ala	Arg	Asp	Glu	Ile	Glu	Ala	Met	Ile	Lys	Arg	Val	Arg
1520						1525					1530			
Leu	Ala	Lys	Glu	Gln	Glu	Ser	Arg	Ala	Asp	Cys	Ile	Ser	Glu	Phe
1535						1540					1545			
Ile	Glu	Trp	Gln	Tyr	Asn	Asp	Asn	Asn	Thr	Ser	His	Cys	Phe	Asn
1550						1555					1560			
Lys	Met	Thr	Asn	Leu	Lys	Leu	Glu	Asp	Ala	Arg	Arg	Glu	Lys	Lys
1565						1570					1575			
Lys	Thr	Val	Asp	Val	Lys	Ile	Asn	His	Arg	His	Tyr	Thr	Val	Asn
1580						1585					1590			
Leu	Asn	Thr	Tyr	Thr	Ala	Thr	Asp	Thr	Lys	Gly	His	Ser	Leu	Ser
1595						1600					1605			
Val	Gln	Arg	Leu	Thr	Lys	Ser	Lys	Val	Asp	Ile	Pro	Ala	His	Trp
1610						1615					1620			
Ser	Asp	Met	Lys	Gln	Gln	Asn	Phe	Cys	Val	Val	Glu	Leu	Leu	Pro
1625						1630					1635			
Ser	Asp	Pro	Glu	Tyr	Asn	Thr	Val	Ala	Ser	Lys	Phe	Asn	Gln	Thr
1640						1645					1650			
Cys	Ser	His	Phe	Arg	Ile	Glu	Lys	Ile	Glu	Arg	Ile	Gln	Asn	Pro
1655						1660					1665			
Asp	Leu	Trp	Asn	Ser	Tyr	Gln	Ala	Lys	Lys	Lys	Thr	Met	Asp	Ala
1670						1675					1680			
Lys	Asn	Gly	Gln	Thr	Met	Asn	Glu	Lys	Gln	Leu	Phe	His	Gly	Thr
1685						1690					1695			
Asp	Ala	Gly	Ser	Val	Pro	His	Val	Asn	Arg	Asn	Gly	Phe	Asn	Arg
1700						1705					1710			
Ser	Tyr	Ala	Gly	Lys	Asn	Ala	Val	Ala	Tyr	Gly	Lys	Gly	Thr	Tyr
1715						1720					1725			

285

Phe Ala Val Asn Ala Asn Tyr Ser Ala Asn Asp Thr Tyr Ser Arg
1730 1735 1740

Pro Asp Ala Asn Gly Arg Lys His Val Tyr Tyr Val Arg Val Leu
1745 1750 1755

Thr Gly Ile Tyr Thr His Gly Asn His Ser Leu Ile Val Pro Pro
1760 1765 1770

Ser Lys Asn Pro Gln Asn Pro Thr Asp Leu Tyr Asp Thr Val Thr
1775 1780 1785

Asp Asn Val His His Pro Ser Leu Phe Val Ala Phe Tyr Asp Tyr
1790 1795 1800

Gln Ala Tyr Pro Glu Tyr Leu Ile Thr Phe Arg Lys
1805 1810 1815

<210> 228
<211> 1744
<212> PRT
<213> Homo sapien

<400> 228

Met Asn Ser Leu Ile Tyr Asn Val Ser Asn Tyr Gln Ser Phe Ile Val
1 5 10 15

His Pro Ser Ser Thr Ser Ala Ser Phe Glu Gly Glu Cys Glu Val Arg
20 25 30

Gln Asp Pro Arg Ser Pro Ser Arg Phe Leu Val Phe Phe Tyr Pro Glu
35 40 45

Asp Val Arg Gln Lys Val Leu Glu Arg Lys Asn His Glu Leu Val Trp
50 55 60

Gln Gly Lys Gly Thr Phe Lys Leu Thr Val Gln Leu Pro Ala Thr Pro
65 70 75 80

Asp Glu Ile Asp His Val Phe Glu Glu Glu Leu Leu Thr Lys Glu Ser
85 90 95

Lys Thr Lys Glu Asp Val Lys Glu Pro Asp Val Ser Glu Glu Leu Asp
100 105 110

Thr Lys Leu Pro Leu Asp Gly Gly Leu Asp Lys Met Glu Asp Ile Pro
115 120 125

286

Glu Glu Cys Glu Asn Ile Ser Ser Leu Val Ala Phe Glu Asn Leu Lys
 130 135 140

Ala Asn Val Thr Asp Ile Met Leu Ile Leu Leu Val Glu Asn Ile Ser
 145 150 155 160

Gly Leu Ser Asn Asp Asp Phe Gln Val Glu Ile Ile Arg Asp Phe Asp
 165 170 175

Val Ala Val Val Thr Phe Gln Lys His Ile Asp Thr Ile Arg Phe Val
 180 185 190

Asp Asp Cys Thr Lys His His Ser Ile Lys Gln Leu Gln Leu Ser Pro
 195 200 205

Arg Leu Leu Glu Val Thr Asn Thr Ile Arg Val Glu Asn Leu Pro Pro
 210 215 220

Gly Ala Asp Asp Tyr Ser Leu Lys Leu Phe Phe Glu Asn Pro Tyr Asn
 225 230 235 240

Gly Gly Gly Arg Val Ala Asn Val Glu Tyr Phe Pro Glu Glu Ser Ser
 245 250 255

Ala Leu Ile Glu Phe Phe Asp Arg Lys Val Leu Asp Thr Ile Met Ala
 260 265 270

Thr Lys Leu Asp Phe Asn Lys Met Pro Leu Ser Val Phe Pro Tyr Tyr
 275 280 285

Ala Ser Leu Gly Thr Ala Leu Tyr Gly Lys Glu Lys Pro Leu Ile Lys
 290 295 300

Leu Pro Ala Pro Phe Glu Glu Ser Leu Asp Leu Pro Leu Trp Lys Phe
 305 310 315 320

Leu Gln Lys Lys Asn His Leu Ile Glu Glu Ile Asn Asp Glu Met Arg
 325 330 335

Arg Cys His Cys Glu Leu Thr Trp Ser Gln Leu Ser Gly Lys Val Thr
 340 345 350

Ile Arg Pro Ala Ala Thr Leu Val Asn Glu Gly Arg Pro Arg Ile Lys
 355 360 365

287

Thr Trp Gln Ala Asp Thr Ser Thr Thr Leu Ser Ser Ile Arg Ser Lys
 370 375 380

Tyr Lys Val Asn Pro Ile Lys Val Asp Pro Thr Met Trp Asp Thr Ile
 385 390 395 400

Lys Asn Asp Val Lys Asp Asp Arg Ile Leu Ile Glu Phe Asp Thr Leu
 405 410 415

Lys Glu Met Val Ile Leu Ala Gly Lys Ser Glu Asp Val Gln Ser Ile
 420 425 430

Glu Val Gln Val Arg Glu Leu Ile Glu Ser Thr Thr Gln Lys Ile Lys
 435 440 445

Arg Glu Glu Gln Ser Leu Lys Glu Lys Met Ile Ile Ser Pro Gly Arg
 450 455 460

Tyr Phe Leu Leu Cys His Ser Ser Leu Leu Asp His Leu Leu Thr Glu
 465 470 475 480

Cys Pro Glu Ile Glu Ile Cys Tyr Asp Arg Val Thr Gln His Leu Cys
 485 490 495

Leu Lys Gly Pro Ser Ala Asp Val Tyr Lys Ala Lys Cys Glu Ile Gln
 500 505 510

Glu Lys Val Tyr Thr Met Ala Gln Lys Asn Ile Gln Val Ser Pro Glu
 515 520 525

Ile Phe Gln Phe Leu Gln Gln Val Asn Trp Lys Glu Phe Ser Lys Cys
 530 535 540

Leu Phe Ile Ala Gln Lys Ile Leu Ala Leu Tyr Glu Leu Glu Gly Thr
 545 550 555 560

Thr Val Leu Leu Thr Ser Cys Ser Ser Glu Ala Leu Leu Glu Ala Glu
 565 570 575

Lys Gln Met Leu Ser Ala Leu Asn Tyr Lys Arg Ile Glu Val Glu Asn
 580 585 590

Lys Glu Val Leu His Gly Lys Lys Trp Lys Gly Leu Thr His Asn Leu
 595 600 605

288

Leu Lys Lys Gln Asn Ser Ser Pro Asn Thr Val Ile Ile Asn Glu Leu
 610 615 620

Thr Ser Glu Thr Thr Ala Glu Val Ile Ile Thr Gly Cys Val Lys Glu
 625 630 635 640

Val Asn Glu Thr Tyr Lys Leu Leu Phe Asn Phe Val Glu Gln Asn Met
 645 650 655

Lys Ile Glu Arg Leu Val Glu Val Lys Pro Ser Leu Val Ile Asp Tyr
 660 665 670

Leu Lys Thr Glu Lys Lys Leu Phe Trp Pro Lys Ile Lys Lys Val Asn
 675 680 685

Val Gln Val Ser Phe Asn Pro Glu Asn Lys Gln Lys Gly Ile Leu Leu
 690 695 700

Thr Gly Ser Lys Thr Glu Val Leu Lys Ala Val Asp Ile Val Lys Gln
 705 710 715 720

Val Trp Asp Ser Val Cys Val Lys Ser Val His Thr Asp Lys Pro Gly
 725 730 735

Ala Lys Gln Phe Phe Gln Asp Lys Ala Arg Phe Tyr Gln Ser Glu Ile
 740 745 750

Lys Arg Leu Phe Gly Cys Tyr Ile Glu Leu Gln Glu Asn Glu Val Met
 755 760 765

Lys Glu Gly Gly Ser Pro Ala Gly Gln Lys Cys Phe Ser Arg Thr Val
 770 775 780

Leu Ala Pro Gly Val Val Leu Ile Val Gln Gln Gly Asp Leu Ala Arg
 785 790 795 800

Leu Pro Val Asp Val Val Val Asn Ala Ser Asn Glu Asp Leu Lys His
 805 810 815

Tyr Gly Gly Leu Ala Ala Ala Leu Ser Lys Ala Ala Gly Pro Glu Leu
 820 825 830

Gln Ala Asp Cys Asp Gln Ile Val Lys Arg Glu Gly Arg Leu Leu Pro
 835 840 845

Gly Asn Ala Thr Ile Ser Lys Ala Gly Lys Leu Pro Tyr His His Val

289

850

855

860

Ile His Ala Val Gly Pro Arg Trp Ser Gly Tyr Glu Ala Pro Arg Cys
 865 870 875 880

Val Tyr Leu Leu Arg Arg Ala Val Gln Leu Ser Leu Cys Leu Ala Glu
 885 890 895

Lys Tyr Lys Tyr Arg Ser Ile Ala Ile Pro Ala Ile Ser Ser Gly Val
 900 905 910

Phe Gly Phe Pro Leu Gly Arg Cys Val Glu Thr Ile Val Ser Ala Ile
 915 920 925

Lys Glu Asn Phe Gln Phe Lys Lys Asp Gly His Cys Leu Lys Glu Ile
 930 935 940

Tyr Leu Val Asp Val Ser Glu Lys Thr Val Gly Pro Leu Gln Met Leu
 945 950 955 960

Leu Val Lys Glu Gly Val Gln Asn Ala Lys Thr Asp Val Val Val Asn
 965 970 975

Ser Val Pro Leu Asp Leu Val Leu Ser Arg Gly Pro Leu Ser Lys Ser
 980 985 990

Leu Leu Glu Lys Ala Gly Pro Glu Leu Gln Glu Glu Leu Asp Thr Val
 995 1000 1005

Gly Gln Gly Val Ala Val Ser Met Gly Thr Val Leu Lys Thr Ser
 1010 1015 1020

Ser Trp Asn Leu Asp Cys Arg Tyr Val Leu His Val Val Ala Pro
 1025 1030 1035

Glu Trp Arg Asn Gly Ser Thr Ser Ser Leu Lys Ile Met Glu Asp
 1040 1045 1050

Ile Ile Arg Glu Cys Met Glu Ile Thr Glu Ser Leu Ser Leu Lys
 1055 1060 1065

Ser Ile Ala Phe Pro Ala Ile Gly Thr Gly Asn Leu Gly Phe Pro
 1070 1075 1080

Lys Asn Ile Phe Ala Glu Leu Ile Ile Ser Glu Val Phe Lys Phe
 1085 1090 1095

290

Ser	Ser	Lys	Asn	Gln	Leu	Lys	Thr	Leu	Gln	Glu	Val	His	Phe	Leu
1100						1105					1110			
Leu	His	Pro	Ser	Asp	His	Glu	Asn	Ile	Gln	Ala	Phe	Ser	Asp	Glu
1115						1120					1125			
Phe	Ala	Arg	Arg	Ala	Asn	Gly	Asn	Leu	Val	Ser	Asp	Lys	Ile	Pro
1130						1135					1140			
Lys	Ala	Lys	Asp	Thr	Gln	Gly	Phe	Tyr	Gly	Thr	Val	Ser	Ser	Pro
1145						1150					1155			
Asp	Ser	Gly	Val	Tyr	Glu	Met	Lys	Ile	Gly	Ser	Ile	Ile	Phe	Gln
1160						1165					1170			
Val	Ala	Ser	Gly	Asp	Ile	Thr	Lys	Glu	Glu	Ala	Asp	Val	Ile	Val
1175						1180					1185			
Asn	Ser	Thr	Ser	Asn	Ser	Phe	Asn	Leu	Lys	Ala	Gly	Val	Ser	Lys
1190						1195					1200			
Ala	Ile	Leu	Glu	Cys	Ala	Gly	Gln	Asn	Val	Glu	Arg	Glu	Cys	Ser
1205						1210					1215			
Gln	Gln	Ala	Gln	Gln	Arg	Lys	Asn	Asp	Tyr	Ile	Ile	Thr	Gly	Gly
1220						1225					1230			
Gly	Phe	Leu	Arg	Cys	Lys	Asn	Ile	Ile	His	Val	Ile	Gly	Gly	Asn
1235						1240					1245			
Asp	Val	Lys	Ser	Ser	Val	Ser	Ser	Val	Leu	Gln	Glu	Cys	Glu	Lys
1250						1255					1260			
Lys	Asn	Tyr	Ser	Ser	Ile	Cys	Leu	Pro	Ala	Ile	Gly	Thr	Gly	Asn
1265						1270					1275			
Ala	Lys	Gln	His	Pro	Asp	Lys	Val	Ala	Glu	Ala	Ile	Ile	Asp	Ala
1280						1285					1290			
Ile	Glu	Asp	Phe	Val	Gln	Lys	Gly	Ser	Ala	Gln	Ser	Val	Lys	Lys
1295						1300					1305			
Val	Lys	Val	Val	Ile	Phe	Leu	Pro	Gln	Val	Leu	Asp	Val	Phe	Tyr
1310						1315					1320			

291

Ala Asn Met Lys Lys Arg Glu Gly Thr Gln Leu Ser Ser Gln Gln
 1325 1330 1335

Ser Val Met Ser Lys Leu Ala Ser Phe Leu Gly Phe Ser Lys Gln
 1340 1345 1350

Ser Pro Gln Lys Lys Asn His Leu Val Leu Glu Lys Lys Thr Glu
 1355 1360 1365

Ser Ala Thr Phe Arg Val Cys Gly Glu Asn Val Thr Cys Val Glu
 1370 1375 1380

Tyr Ala Ile Ser Trp Leu Gln Asp Leu Ile Glu Lys Glu Gln Cys
 1385 1390 1395

Pro Tyr Thr Ser Glu Asp Glu Cys Ile Lys Asp Phe Asp Glu Lys
 1400 1405 1410

Glu Tyr Gln Glu Leu Asn Glu Leu Gln Lys Lys Leu Asn Ile Asn
 1415 1420 1425

Ile Ser Leu Asp His Lys Arg Pro Leu Ile Lys Val Leu Gly Ile
 1430 1435 1440

Ser Arg Asp Val Met Gln Ala Arg Asp Glu Ile Glu Ala Met Ile
 1445 1450 1455

Lys Arg Val Arg Leu Ala Lys Glu Gln Glu Ser Arg Ala Asp Cys
 1460 1465 1470

Ile Ser Glu Phe Ile Glu Trp Gln Tyr Asn Asp Asn Asn Thr Ser
 1475 1480 1485

His Cys Phe Asn Lys Met Thr Asn Leu Lys Leu Glu Asp Ala Arg
 1490 1495 1500

Arg Glu Lys Lys Lys Thr Val Asp Val Lys Ile Asn His Arg His
 1505 1510 1515

Tyr Thr Val Asn Leu Asn Thr Tyr Thr Ala Thr Asp Thr Lys Gly
 1520 1525 1530

His Ser Leu Ser Val Gln Arg Leu Thr Lys Ser Lys Val Asp Ile
 1535 1540 1545

292

Pro Ala His Trp Ser Asp Met Lys Gln Gln Asn Phe Cys Val Val
 1550 1555 1560

Glu Leu Leu Pro Ser Asp Pro Glu Tyr Asn Thr Val Ala Ser Lys
 1565 1570 1575

Phe Asn Gln Thr Cys Ser His Phe Arg Ile Glu Lys Ile Glu Arg
 1580 1585 1590

Ile Gln Asn Pro Asp Leu Trp Asn Ser Tyr Gln Ala Lys Lys Lys
 1595 1600 1605

Thr Met Asp Ala Lys Asn Gly Gln Thr Met Asn Glu Lys Gln Leu
 1610 1615 1620

Phe His Gly Thr Asp Ala Gly Ser Val Pro His Val Asn Arg Asn
 1625 1630 1635

Gly Phe Asn Arg Ser Tyr Ala Gly Lys Asn Ala Val Ala Tyr Gly
 1640 1645 1650

Lys Gly Thr Tyr Phe Ala Val Asn Ala Asn Tyr Ser Ala Asn Asp
 1655 1660 1665

Thr Tyr Ser Arg Pro Asp Ala Asn Gly Arg Lys His Val Tyr Tyr
 1670 1675 1680

Val Arg Val Leu Thr Gly Ile Tyr Thr His Gly Asn His Ser Leu
 1685 1690 1695

Ile Val Pro Pro Ser Lys Asn Pro Gln Asn Pro Thr Asp Leu Tyr
 1700 1705 1710

Asp Thr Val Thr Asp Asn Val His His Pro Ser Leu Phe Val Ala
 1715 1720 1725

Phe Tyr Asp Tyr Gln Ala Tyr Pro Glu Tyr Leu Ile Thr Phe Arg
 1730 1735 1740

Lys

<210> 229
 <211> 968
 <212> PRT
 <213> Homo sapien

293

<400> 229

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Asn Ser Leu Ile Tyr Asn Val Ser Asn Tyr Gln Ser Phe Ile Val His
1           5           10           15

Pro Ser Ser Thr Ser Ala Ser Phe Glu Gly Glu Cys Glu Val Arg Gln
          20           25           30

Asp Pro Arg Ser Pro Ser Arg Phe Leu Val Phe Phe Tyr Pro Glu Asp
          35           40           45

Val Arg Gln Lys Val Leu Glu Arg Lys Asn His Glu Leu Val Trp Gln
          50           55           60

Gly Lys Gly Thr Phe Lys Leu Thr Val Gln Leu Pro Ala Thr Pro Asp
65           70           75           80

Glu Ile Asp His Val Phe Glu Glu Glu Leu Leu Thr Lys Glu Ser Lys
          85           90           95

Thr Lys Glu Asp Val Lys Glu Pro Asp Val Ser Glu Glu Leu Asp Thr
          100          105          110

Lys Leu Pro Leu Asp Gly Gly Leu Asp Lys Met Glu Asp Ile Pro Glu
          115          120          125

Glu Cys Glu Asn Ile Ser Ser Leu Val Ala Phe Glu Asn Leu Lys Ala
          130          135          140

Asn Val Thr Asp Ile Met Leu Ile Leu Leu Val Glu Asn Ile Ser Gly
145          150          155          160

Leu Ser Asn Asp Asp Phe Gln Val Glu Ile Ile Arg Asp Phe Asp Val
          165          170          175

Ala Val Val Thr Phe Gln Lys His Ile Asp Thr Ile Arg Phe Val Asp
          180          185          190

Asp Cys Thr Lys His His Ser Ile Lys Gln Leu Gln Leu Ser Pro Arg
          195          200          205

Leu Leu Glu Val Thr Asn Thr Ile Arg Val Glu Asn Leu Pro Pro Gly
          210          215          220

Ala Asp Asp Tyr Ser Leu Lys Leu Phe Phe Glu Asn Pro Tyr Asn Gly
225          230          235          240

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294

Gly Gly Arg Val Ala Asn Val Glu Tyr Phe Pro Glu Glu Ser Ser Ala
 245 250 255

Leu Ile Glu Phe Phe Asp Arg Lys Val Leu Asp Thr Ile Met Ala Thr
 260 265 270

Lys Leu Asp Phe Asn Lys Met Pro Leu Ser Val Phe Pro Tyr Tyr Ala
 275 280 285

Ser Leu Gly Thr Ala Leu Tyr Gly Lys Glu Lys Pro Leu Ile Lys Leu
 290 295 300

Pro Ala Pro Phe Glu Glu Ser Leu Asp Leu Pro Leu Trp Lys Phe Leu
 305 310 315 320

Gln Lys Lys Asn His Leu Ile Glu Glu Ile Asn Asp Glu Met Arg Arg
 325 330 335

Cys His Cys Glu Leu Thr Trp Ser Gln Leu Ser Gly Lys Val Thr Ile
 340 345 350

Arg Pro Ala Ala Thr Leu Val Asn Glu Gly Arg Pro Arg Ile Lys Thr
 355 360 365

Trp Gln Ala Asp Thr Ser Thr Thr Leu Ser Ser Ile Arg Ser Lys Tyr
 370 375 380

Lys Val Asn Pro Ile Lys Val Asp Pro Thr Met Trp Asp Thr Ile Lys
 385 390 395 400

Asn Asp Val Lys Asp Asp Arg Ile Leu Ile Glu Phe Asp Thr Leu Lys
 405 410 415

Glu Met Val Ile Leu Ala Gly Lys Ser Glu Asp Val Gln Ser Ile Glu
 420 425 430

Val Gln Val Arg Glu Leu Ile Glu Ser Thr Thr Gln Lys Ile Lys Arg
 435 440 445

Glu Glu Gln Ser Leu Lys Glu Lys Met Ile Ile Ser Pro Gly Arg Tyr
 450 455 460

Phe Leu Leu Cys His Ser Ser Leu Leu Asp His Leu Leu Thr Glu Cys
 465 470 475 480

295

Pro Glu Ile Glu Ile Cys Tyr Asp Arg Val Thr Gln His Leu Cys Leu
 485 490 495

Lys Gly Pro Ser Ala Asp Val Tyr Lys Ala Lys Cys Glu Ile Gln Glu
 500 505 510

Lys Val Tyr Thr Met Ala Gln Lys Asn Ile Gln Val Ser Pro Glu Ile
 515 520 525

Phe Gln Phe Leu Gln Gln Val Asn Trp Lys Glu Phe Ser Lys Cys Leu
 530 535 540

Phe Ile Ala Gln Lys Ile Leu Ala Leu Tyr Glu Leu Glu Gly Thr Thr
 545 550 555 560

Val Leu Leu Thr Ser Cys Ser Ser Glu Ala Leu Leu Glu Ala Glu Lys
 565 570 575

Gln Met Leu Ser Ala Leu Asn Tyr Lys Arg Ile Glu Val Glu Asn Lys
 580 585 590

Glu Val Leu His Gly Lys Lys Trp Lys Gly Leu Thr His Asn Leu Leu
 595 600 605

Lys Lys Gln Asn Ser Ser Pro Asn Thr Val Ile Ile Asn Glu Leu Thr
 610 615 620

Ser Glu Thr Thr Ala Glu Val Ile Ile Thr Gly Cys Val Lys Glu Val
 625 630 635 640

Asn Glu Thr Tyr Lys Leu Leu Phe Asn Phe Val Glu Gln Asn Met Lys
 645 650 655

Ile Glu Arg Leu Val Glu Val Lys Pro Ser Leu Val Ile Asp Tyr Leu
 660 665 670

Lys Thr Glu Lys Lys Leu Phe Trp Pro Lys Ile Lys Lys Val Asn Val
 675 680 685

Gln Val Ser Phe Asn Pro Glu Asn Lys Gln Lys Gly Ile Leu Leu Thr
 690 695 700

Gly Ser Lys Thr Glu Val Leu Lys Ala Val Asp Ile Val Lys Gln Val
 705 710 715 720

Trp Asp Ser Val Cys Val Lys Ser Val His Thr Asp Lys Pro Gly Ala

296
 725 730 735
 Lys Gln Phe Phe Gln Asp Lys Ala Arg Phe Tyr Gln Ser Glu Ile Lys
 740 745 750
 Arg Leu Phe Gly Cys Tyr Ile Glu Leu Gln Glu Asn Glu Val Met Lys
 755 760 765
 Glu Gly Gly Ser Pro Ala Gly Gln Lys Cys Phe Ser Arg Thr Val Leu
 770 775 780
 Ala Pro Gly Val Val Leu Ile Val Gln Gln Gly Asp Leu Ala Arg Leu
 785 790 795 800
 Pro Val Asp Val Val Val Asn Ala Ser Asn Glu Asp Leu Lys His Tyr
 805 810 815
 Gly Gly Leu Ala Ala Ala Leu Ser Lys Ala Ala Gly Pro Glu Leu Gln
 820 825 830
 Ala Asp Cys Asp Gln Ile Val Lys Arg Glu Gly Arg Leu Leu Pro Gly
 835 840 845
 Asn Ala Thr Ile Ser Lys Ala Gly Lys Leu Pro Tyr His His Val Ile
 850 855 860
 His Ala Val Gly Pro Arg Trp Ser Gly Tyr Glu Ala Pro Arg Cys Val
 865 870 875 880
 Tyr Leu Leu Arg Arg Ala Val Gln Leu Ser Leu Cys Leu Ala Glu Lys
 885 890 895
 Tyr Lys Tyr Arg Ser Ile Ala Ile Pro Ala Ile Ser Ser Gly Val Phe
 900 905 910
 Gly Phe Pro Leu Gly Arg Cys Val Glu Thr Ile Val Ser Ala Ile Lys
 915 920 925
 Glu Asn Phe Gln Phe Lys Lys Asp Gly His Cys Leu Lys Glu Ile Tyr
 930 935 940
 Leu Val Asp Val Ser Glu Lys Thr Val Glu Ala Phe Ala Asp Ala Val
 945 950 955 960
 Gly Glu Arg Gly Cys Ala Glu Cys
 965

<210> 230
 <211> 968
 <212> PRT
 <213> Homo sapien

<400> 230

Asn Ser Leu Ile Tyr Asn Val Ser Asn Tyr Gln Ser Phe Ile Val His
 1 5 10 15

Pro Ser Ser Thr Ser Ala Ser Phe Glu Gly Glu Cys Glu Val Arg Gln
 20 25 30

Asp Pro Arg Ser Pro Ser Arg Phe Leu Val Phe Phe Tyr Pro Glu Asp
 35 40 45

Val Arg Gln Lys Val Leu Glu Arg Lys Asn His Glu Leu Val Trp Gln
 50 55 60

Gly Lys Gly Thr Phe Lys Leu Thr Val Gln Leu Pro Ala Thr Pro Asp
 65 70 75 80

Glu Ile Asp His Val Phe Glu Glu Glu Leu Leu Thr Lys Glu Ser Lys
 85 90 95

Thr Lys Glu Asp Val Lys Glu Pro Asp Val Ser Glu Glu Leu Asp Thr
 100 105 110

Lys Leu Pro Leu Asp Gly Gly Leu Asp Lys Met Glu Asp Ile Pro Glu
 115 120 125

Glu Cys Glu Asn Ile Ser Ser Leu Val Ala Phe Glu Asn Leu Lys Ala
 130 135 140

Asn Val Thr Asp Ile Met Leu Ile Leu Leu Val Glu Asn Ile Ser Gly
 145 150 155 160

Leu Ser Asn Asp Asp Phe Gln Val Glu Ile Ile Arg Asp Phe Asp Val
 165 170 175

Ala Val Val Thr Phe Gln Lys His Ile Asp Thr Ile Arg Phe Val Asp
 180 185 190

Asp Cys Thr Lys His His Ser Ile Lys Gln Leu Gln Leu Ser Pro Arg
 195 200 205

298

Leu Leu Glu Val Thr Asn Thr Ile Arg Val Glu Asn Leu Pro Pro Gly
 210 215 220

Ala Asp Asp Tyr Ser Leu Lys Leu Phe Phe Glu Asn Pro Tyr Asn Gly
 225 230 235 240

Gly Gly Arg Val Ala Asn Val Glu Tyr Phe Pro Glu Glu Ser Ser Ala
 245 250 255

Leu Ile Glu Phe Phe Asp Arg Lys Val Leu Asp Thr Ile Met Ala Thr
 260 265 270

Lys Leu Asp Phe Asn Lys Met Pro Leu Ser Val Phe Pro Tyr Tyr Ala
 275 280 285

Ser Leu Gly Thr Ala Leu Tyr Gly Lys Glu Lys Pro Leu Ile Lys Leu
 290 295 300

Pro Ala Pro Phe Glu Glu Ser Leu Asp Leu Pro Leu Trp Lys Phe Leu
 305 310 315 320

Gln Lys Lys Asn His Leu Ile Glu Glu Ile Asn Asp Glu Met Arg Arg
 325 330 335

Cys His Cys Glu Leu Thr Trp Ser Gln Leu Ser Gly Lys Val Thr Ile
 340 345 350

Arg Pro Ala Ala Thr Leu Val Asn Glu Gly Arg Pro Arg Ile Lys Thr
 355 360 365

Trp Gln Ala Asp Thr Ser Thr Thr Leu Ser Ser Ile Arg Ser Lys Tyr
 370 375 380

Lys Val Asn Pro Ile Lys Val Asp Pro Thr Met Trp Asp Thr Ile Lys
 385 390 395 400

Asn Asp Val Lys Asp Asp Arg Ile Leu Ile Glu Phe Asp Thr Leu Lys
 405 410 415

Glu Met Val Ile Leu Ala Gly Lys Ser Glu Asp Val Gln Ser Ile Glu
 420 425 430

Val Gln Val Arg Glu Leu Ile Glu Ser Thr Thr Gln Lys Ile Lys Arg
 435 440 445

Glu Glu Gln Ser Leu Lys Glu Lys Met Ile Ile Ser Pro Gly Arg Tyr

299

450

455

460

Phe Leu Leu Cys His Ser Ser Leu Leu Asp His Leu Leu Thr Glu Cys
 465 470 475 480

Pro Glu Ile Glu Ile Cys Tyr Asp Arg Val Thr Gln His Leu Cys Leu
 485 490 495

Lys Gly Pro Ser Ala Asp Val Tyr Lys Ala Lys Cys Glu Ile Gln Glu
 500 505 510

Lys Val Tyr Thr Met Ala Gln Lys Asn Ile Gln Val Ser Pro Glu Ile
 515 520 525

Phe Gln Phe Leu Gln Gln Val Asn Trp Lys Glu Phe Ser Lys Cys Leu
 530 535 540

Phe Ile Ala Gln Lys Ile Leu Ala Leu Tyr Glu Leu Glu Gly Thr Thr
 545 550 555 560

Val Leu Leu Thr Ser Cys Ser Ser Glu Ala Leu Leu Glu Ala Glu Lys
 565 570 575

Gln Met Leu Ser Ala Leu Asn Tyr Lys Arg Ile Glu Val Glu Asn Lys
 580 585 590

Glu Val Leu His Gly Lys Lys Trp Lys Gly Leu Thr His Asn Leu Leu
 595 600 605

Lys Lys Gln Asn Ser Ser Pro Asn Thr Val Ile Ile Asn Glu Leu Thr
 610 615 620

Ser Glu Thr Thr Ala Glu Val Ile Ile Thr Gly Cys Val Lys Glu Val
 625 630 635 640

Asn Glu Thr Tyr Lys Leu Leu Phe Asn Phe Val Glu Gln Asn Met Lys
 645 650 655

Ile Glu Arg Leu Val Glu Val Lys Pro Ser Leu Val Ile Asp Tyr Leu
 660 665 670

Lys Thr Glu Lys Lys Leu Phe Trp Pro Lys Ile Lys Lys Val Asn Val
 675 680 685

Gln Val Ser Phe Asn Pro Glu Asn Lys Gln Lys Gly Ile Leu Leu Thr
 690 695 700

300

Gly Ser Lys Thr Glu Val Leu Lys Ala Val Asp Ile Val Lys Gln Val
705 710 715 720

Trp Asp Ser Val Cys Val Lys Ser Val His Thr Asp Lys Pro Gly Ala
725 730 735

Lys Gln Phe Phe Gln Asp Lys Ala Arg Phe Tyr Gln Ser Glu Ile Lys
740 745 750

Arg Leu Phe Gly Cys Tyr Ile Glu Leu Gln Glu Asn Glu Val Met Lys
755 760 765

Glu Gly Gly Ser Pro Ala Gly Gln Lys Cys Phe Ser Arg Thr Val Leu
770 775 780

Ala Pro Gly Val Val Leu Ile Val Gln Gln Gly Asp Leu Ala Arg Leu
785 790 795 800

Pro Val Asp Val Val Val Asn Ala Ser Asn Glu Asp Leu Lys His Tyr
805 810 815

Gly Gly Leu Ala Ala Ala Leu Ser Lys Ala Ala Gly Pro Glu Leu Gln
820 825 830

Ala Asp Cys Asp Gln Ile Val Lys Arg Glu Gly Arg Leu Leu Pro Gly
835 840 845

Asn Ala Thr Ile Ser Lys Ala Gly Lys Leu Pro Tyr His His Val Ile
850 855 860

His Ala Val Gly Pro Arg Trp Ser Gly Tyr Glu Ala Pro Arg Cys Val
865 870 875 880

Tyr Leu Leu Arg Arg Ala Val Gln Leu Ser Leu Cys Leu Ala Glu Lys
885 890 895

Tyr Lys Tyr Arg Ser Ile Ala Ile Pro Ala Ile Ser Ser Gly Val Phe
900 905 910

Gly Phe Pro Leu Gly Arg Cys Val Glu Thr Ile Val Ser Ala Ile Lys
915 920 925

Glu Asn Phe Gln Phe Lys Lys Asp Gly His Cys Leu Lys Glu Ile Tyr
930 935 940

301

Leu Val Asp Val Ser Glu Lys Thr Val Glu Ala Phe Ala Asp Ala Val
 945 950 955 960

Gly Glu Arg Gly Cys Ala Glu Cys
 965

<210> 231
 <211> 968
 <212> PRT
 <213> Homo sapien

<400> 231

Asn Ser Leu Ile Tyr Asn Val Ser Asn Tyr Gln Ser Phe Ile Val His
 1 5 10 15

Pro Ser Ser Thr Ser Ala Ser Phe Glu Gly Glu Cys Glu Val Arg Gln
 20 25 30

Asp Pro Arg Ser Pro Ser Arg Phe Leu Val Phe Phe Tyr Pro Glu Asp
 35 40 45

Val Arg Gln Lys Val Leu Glu Arg Lys Asn His Glu Leu Val Trp Gln
 50 55 60

Gly Lys Gly Thr Phe Lys Leu Thr Val Gln Leu Pro Ala Thr Pro Asp
 65 70 75 80

Glu Ile Asp His Val Phe Glu Glu Glu Leu Leu Thr Lys Glu Ser Lys
 85 90 95

Thr Lys Glu Asp Val Lys Glu Pro Asp Val Ser Glu Glu Leu Asp Thr
 100 105 110

Lys Leu Pro Leu Asp Gly Gly Leu Asp Lys Met Glu Asp Ile Pro Glu
 115 120 125

Glu Cys Glu Asn Ile Ser Ser Leu Val Ala Phe Glu Asn Leu Lys Ala
 130 135 140

Asn Val Thr Asp Ile Met Leu Ile Leu Leu Val Glu Asn Ile Ser Gly
 145 150 155 160

Leu Ser Asn Asp Asp Phe Gln Val Glu Ile Ile Arg Asp Phe Asp Val
 165 170 175

Ala Val Val Thr Phe Gln Lys His Ile Asp Thr Ile Arg Phe Val Asp

302

180

185

190

Asp Cys Thr Lys His His Ser Ile Lys Gln Leu Gln Leu Ser Pro Arg
 195 200 205

Leu Leu Glu Val Thr Asn Thr Ile Arg Val Glu Asn Leu Pro Pro Gly
 210 215 220

Ala Asp Asp Tyr Ser Leu Lys Leu Phe Phe Glu Asn Pro Tyr Asn Gly
 225 230 235 240

Gly Gly Arg Val Ala Asn Val Glu Tyr Phe Pro Glu Glu Ser Ser Ala
 245 250 255

Leu Ile Glu Phe Phe Asp Arg Lys Val Leu Asp Thr Ile Met Ala Thr
 260 265 270

Lys Leu Asp Phe Asn Lys Met Pro Leu Ser Val Phe Pro Tyr Tyr Ala
 275 280 285

Ser Leu Gly Thr Ala Leu Tyr Gly Lys Glu Lys Pro Leu Ile Lys Leu
 290 295 300

Pro Ala Pro Phe Glu Glu Ser Leu Asp Leu Pro Leu Trp Lys Phe Leu
 305 310 315 320

Gln Lys Lys Asn His Leu Ile Glu Glu Ile Asn Asp Glu Met Arg Arg
 325 330 335

Cys His Cys Glu Leu Thr Trp Ser Gln Leu Ser Gly Lys Val Thr Ile
 340 345 350

Arg Pro Ala Ala Thr Leu Val Asn Glu Gly Arg Pro Arg Ile Lys Thr
 355 360 365

Trp Gln Ala Asp Thr Ser Thr Thr Leu Ser Ser Ile Arg Ser Lys Tyr
 370 375 380

Lys Val Asn Pro Ile Lys Val Asp Pro Thr Met Trp Asp Thr Ile Lys
 385 390 395 400

Asn Asp Val Lys Asp Asp Arg Ile Leu Ile Glu Phe Asp Thr Leu Lys
 405 410 415

Glu Met Val Ile Leu Ala Gly Lys Ser Glu Asp Val Gln Ser Ile Glu
 420 425 430

303

Val Gln Val Arg Glu Leu Ile Glu Ser Thr Thr Gln Lys Ile Lys Arg
 435 440 445

Glu Glu Gln Ser Leu Lys Glu Lys Met Ile Ile Ser Pro Gly Arg Tyr
 450 455 460

Phe Leu Leu Cys His Ser Ser Leu Leu Asp His Leu Leu Thr Glu Cys
 465 470 475 480

Pro Glu Ile Glu Ile Cys Tyr Asp Arg Val Thr Gln His Leu Cys Leu
 485 490 495

Lys Gly Pro Ser Ala Asp Val Tyr Lys Ala Lys Cys Glu Ile Gln Glu
 500 505 510

Lys Val Tyr Thr Met Ala Gln Lys Asn Ile Gln Val Ser Pro Glu Ile
 515 520 525

Phe Gln Phe Leu Gln Gln Val Asn Trp Lys Glu Phe Ser Lys Cys Leu
 530 535 540

Phe Ile Ala Gln Lys Ile Leu Ala Leu Tyr Glu Leu Glu Gly Thr Thr
 545 550 555 560

Val Leu Leu Thr Ser Cys Ser Ser Glu Ala Leu Leu Glu Ala Glu Lys
 565 570 575

Gln Met Leu Ser Ala Leu Asn Tyr Lys Arg Ile Glu Val Glu Asn Lys
 580 585 590

Glu Val Leu His Gly Lys Lys Trp Lys Gly Leu Thr His Asn Leu Leu
 595 600 605

Lys Lys Gln Asn Ser Ser Pro Asn Thr Val Ile Ile Asn Glu Leu Thr
 610 615 620

Ser Glu Thr Thr Ala Glu Val Ile Ile Thr Gly Cys Val Lys Glu Val
 625 630 635 640

Asn Glu Thr Tyr Lys Leu Leu Phe Asn Phe Val Glu Gln Asn Met Lys
 645 650 655

Ile Glu Arg Leu Val Glu Val Lys Pro Ser Leu Val Ile Asp Tyr Leu
 660 665 670

304

Lys Thr Glu Lys Lys Leu Phe Trp Pro Lys Ile Lys Lys Val Asn Val
 675 680 685

Gln Val Ser Phe Asn Pro Glu Asn Lys Gln Lys Gly Ile Leu Leu Thr
 690 695 700

Gly Ser Lys Thr Glu Val Leu Lys Ala Val Asp Ile Val Lys Gln Val
 705 710 715 720

Trp Asp Ser Val Cys Val Lys Ser Val His Thr Asp Lys Pro Gly Ala
 725 730 735

Lys Gln Phe Phe Gln Asp Lys Ala Arg Phe Tyr Gln Ser Glu Ile Lys
 740 745 750

Arg Leu Phe Gly Cys Tyr Ile Glu Leu Gln Glu Asn Glu Val Met Lys
 755 760 765

Glu Gly Gly Ser Pro Ala Gly Gln Lys Cys Phe Ser Arg Thr Val Leu
 770 775 780

Ala Pro Gly Val Val Leu Ile Val Gln Gln Gly Asp Leu Ala Arg Leu
 785 790 795 800

Pro Val Asp Val Val Val Asn Ala Ser Asn Glu Asp Leu Lys His Tyr
 805 810 815

Gly Gly Leu Ala Ala Ala Leu Ser Lys Ala Ala Gly Pro Glu Leu Gln
 820 825 830

Ala Asp Cys Asp Gln Ile Val Lys Arg Glu Gly Arg Leu Leu Pro Gly
 835 840 845

Asn Ala Thr Ile Ser Lys Ala Gly Lys Leu Pro Tyr His His Val Ile
 850 855 860

His Ala Val Gly Pro Arg Trp Ser Gly Tyr Glu Ala Pro Arg Cys Val
 865 870 875 880

Tyr Leu Leu Arg Arg Ala Val Gln Leu Ser Leu Cys Leu Ala Glu Lys
 885 890 895

Tyr Lys Tyr Arg Ser Ile Ala Ile Pro Ala Ile Ser Ser Gly Val Phe
 900 905 910

305

Gly Phe Pro Leu Gly Arg Cys Val Glu Thr Ile Val Ser Ala Ile Lys
 915 920 925

Glu Asn Phe Gln Phe Lys Lys Asp Gly His Cys Leu Lys Glu Ile Tyr
 930 935 940

Leu Val Asp Val Ser Glu Lys Thr Val Glu Ala Phe Ala Asp Ala Val
 945 950 955 960

Gly Glu Arg Gly Cys Ala Glu Cys
 965

<210> 232
 <211> 1744
 <212> PRT
 <213> Homo sapien

<400> 232

Met Asn Ser Leu Ile Tyr Asn Val Ser Asn Tyr Gln Ser Phe Ile Val
 1 5 10 15

His Pro Ser Ser Thr Ser Ala Ser Phe Glu Gly Glu Cys Glu Val Arg
 20 25 30

Gln Asp Pro Arg Ser Pro Ser Arg Phe Leu Val Phe Phe Tyr Pro Glu
 35 40 45

Asp Val Arg Gln Lys Val Leu Glu Arg Lys Asn His Glu Leu Val Trp
 50 55 60

Gln Gly Lys Gly Thr Phe Lys Leu Thr Val Gln Leu Pro Ala Thr Pro
 65 70 75 80

Asp Glu Ile Asp His Val Phe Glu Glu Glu Leu Leu Thr Lys Glu Ser
 85 90 95

Lys Thr Lys Glu Asp Val Lys Glu Pro Asp Val Ser Glu Glu Leu Asp
 100 105 110

Thr Lys Leu Pro Leu Asp Gly Gly Leu Asp Lys Met Glu Asp Ile Pro
 115 120 125

Glu Glu Cys Glu Asn Ile Ser Ser Leu Val Ala Phe Glu Asn Leu Lys
 130 135 140

Ala Asn Val Thr Asp Ile Met Leu Ile Leu Leu Val Glu Asn Ile Ser
 145 150 155 160

306

Gly Leu Ser Asn Asp Asp Phe Gln Val Glu Ile Ile Arg Asp Phe Asp
 165 170 175

Val Ala Val Val Thr Phe Gln Lys His Ile Asp Thr Ile Arg Phe Val
 180 185 190

Asp Asp Cys Thr Lys His His Ser Ile Lys Gln Leu Gln Leu Ser Pro
 195 200 205

Arg Leu Leu Glu Val Thr Asn Thr Ile Arg Val Glu Asn Leu Pro Pro
 210 215 220

Gly Ala Asp Asp Tyr Ser Leu Lys Leu Phe Phe Glu Asn Pro Tyr Asn
 225 230 235 240

Gly Gly Gly Arg Val Ala Asn Val Glu Tyr Phe Pro Glu Glu Ser Ser
 245 250 255

Ala Leu Ile Glu Phe Phe Asp Arg Lys Val Leu Asp Thr Ile Met Ala
 260 265 270

Thr Lys Leu Asp Phe Asn Lys Met Pro Leu Ser Val Phe Pro Tyr Tyr
 275 280 285

Ala Ser Leu Gly Thr Ala Leu Tyr Gly Lys Glu Lys Pro Leu Ile Lys
 290 295 300

Leu Pro Ala Pro Phe Glu Glu Ser Leu Asp Leu Pro Leu Trp Lys Phe
 305 310 315 320

Leu Gln Lys Lys Asn His Leu Ile Glu Glu Ile Asn Asp Glu Met Arg
 325 330 335

Arg Cys His Cys Glu Leu Thr Trp Ser Gln Leu Ser Gly Lys Val Thr
 340 345 350

Ile Arg Pro Ala Ala Thr Leu Val Asn Glu Gly Arg Pro Arg Ile Lys
 355 360 365

Thr Trp Gln Ala Asp Thr Ser Thr Thr Leu Ser Ser Ile Arg Ser Lys
 370 375 380

Tyr Lys Val Asn Pro Ile Lys Val Asp Pro Thr Met Trp Asp Thr Ile
 385 390 395 400

307

Lys Asn Asp Val Lys Asp Asp Arg Ile Leu Ile Glu Phe Asp Thr Leu
 405 410 415

Lys Glu Met Val Ile Leu Ala Gly Lys Ser Glu Asp Val Gln Ser Ile
 420 425 430

Glu Val Gln Val Arg Glu Leu Ile Glu Ser Thr Thr Gln Lys Ile Lys
 435 440 445

Arg Glu Glu Gln Ser Leu Lys Glu Lys Met Ile Ile Ser Pro Gly Arg
 450 455 460

Tyr Phe Leu Leu Cys His Ser Ser Leu Leu Asp His Leu Leu Thr Glu
 465 470 475 480

Cys Pro Glu Ile Glu Ile Cys Tyr Asp Arg Val Thr Gln His Leu Cys
 485 490 495

Leu Lys Gly Pro Ser Ala Asp Val Tyr Lys Ala Lys Cys Glu Ile Gln
 500 505 510

Glu Lys Val Tyr Thr Met Ala Gln Lys Asn Ile Gln Val Ser Pro Glu
 515 520 525

Ile Phe Gln Phe Leu Gln Gln Val Asn Trp Lys Glu Phe Ser Lys Cys
 530 535 540

Leu Phe Ile Ala Gln Lys Ile Leu Ala Leu Tyr Glu Leu Glu Gly Thr
 545 550 555 560

Thr Val Leu Leu Thr Ser Cys Ser Ser Glu Ala Leu Leu Glu Ala Glu
 565 570 575

Lys Gln Met Leu Ser Ala Leu Asn Tyr Lys Arg Ile Glu Val Glu Asn
 580 585 590

Lys Glu Val Leu His Gly Lys Lys Trp Lys Gly Leu Thr His Asn Leu
 595 600 605

Leu Lys Lys Gln Asn Ser Ser Pro Asn Thr Val Ile Ile Asn Glu Leu
 610 615 620

Thr Ser Glu Thr Thr Ala Glu Val Ile Ile Thr Gly Cys Val Lys Glu
 625 630 635 640

308

Val Asn Glu Thr Tyr Lys Leu Leu Phe Asn Phe Val Glu Gln Asn Met
 645 650 655

Lys Ile Glu Arg Leu Val Glu Val Lys Pro Ser Leu Val Ile Asp Tyr
 660 665 670

Leu Lys Thr Glu Lys Lys Leu Phe Trp Pro Lys Ile Lys Lys Val Asn
 675 680 685

Val Gln Val Ser Phe Asn Pro Glu Asn Lys Gln Lys Gly Ile Leu Leu
 690 695 700

Thr Gly Ser Lys Thr Glu Val Leu Lys Ala Val Asp Ile Val Lys Gln
 705 710 715 720

Val Trp Asp Ser Val Cys Val Lys Ser Val His Thr Asp Lys Pro Gly
 725 730 735

Ala Lys Gln Phe Phe Gln Asp Lys Ala Arg Phe Tyr Gln Ser Glu Ile
 740 745 750

Lys Arg Leu Phe Gly Cys Tyr Ile Glu Leu Gln Glu Asn Glu Val Met
 755 760 765

Lys Glu Gly Gly Ser Pro Ala Gly Gln Lys Cys Phe Ser Arg Thr Val
 770 775 780

Leu Ala Pro Gly Val Val Leu Ile Val Gln Gln Gly Asp Leu Ala Arg
 785 790 795 800

Leu Pro Val Asp Val Val Asn Ala Ser Asn Glu Asp Leu Lys His
 805 810 815

Tyr Gly Gly Leu Ala Ala Ala Leu Ser Lys Ala Ala Gly Pro Glu Leu
 820 825 830

Gln Ala Asp Cys Asp Gln Ile Val Lys Arg Glu Gly Arg Leu Leu Pro
 835 840 845

Gly Asn Ala Thr Ile Ser Lys Ala Gly Lys Leu Pro Tyr His His Val
 850 855 860

Ile His Ala Val Gly Pro Arg Trp Ser Gly Tyr Glu Ala Pro Arg Cys
 865 870 875 880

Val Tyr Leu Leu Arg Arg Ala Val Gln Leu Ser Leu Cys Leu Ala Glu

309

885

890

895

Lys Tyr Lys Tyr Arg Ser Ile Ala Ile Pro Ala Ile Ser Ser Gly Val
 900 . 905 910

Phe Gly Phe Pro Leu Gly Arg Cys Val Glu Thr Ile Val Ser Ala Ile
 915 920 925

Lys Glu Asn Phe Gln Phe Lys Lys Asp Gly His Cys Leu Lys Glu Ile
 930 935 940

Tyr Leu Val Asp Val Ser Glu Lys Thr Val Gly Pro Leu Gln Met Leu
 945 950 955 960

Leu Val Lys Glu Gly Val Gln Asn Ala Lys Thr Asp Val Val Val Asn
 965 970 975

Ser Val Pro Leu Asp Leu Val Leu Ser Arg Gly Pro Leu Ser Lys Ser
 980 985 990

Leu Leu Glu Lys Ala Gly Pro Glu Leu Gln Glu Glu Leu Asp Thr Val
 995 1000 1005

Gly Gln Gly Val Ala Val Ser Met Gly Thr Val Leu Lys Thr Ser
 1010 1015 1020

Ser Trp Asn Leu Asp Cys Arg Tyr Val Leu His Val Val Ala Pro
 1025 1030 1035

Glu Trp Arg Asn Gly Ser Thr Ser Ser Leu Lys Ile Met Glu Asp
 1040 1045 1050

Ile Ile Arg Glu Cys Met Glu Ile Thr Glu Ser Leu Ser Leu Lys
 1055 1060 1065

Ser Ile Ala Phe Pro Ala Ile Gly Thr Gly Asn Leu Gly Phe Pro
 1070 1075 1080

Lys Asn Ile Phe Ala Glu Leu Ile Ile Ser Glu Val Phe Lys Phe
 1085 1090 1095

Ser Ser Lys Asn Gln Leu Lys Thr Leu Gln Glu Val His Phe Leu
 1100 1105 1110

Leu His Pro Ser Asp His Glu Asn Ile Gln Ala Phe Ser Asp Glu
 1115 1120 1125

310

Phe	Ala	Arg	Arg	Ala	Asn	Gly	Asn	Leu	Val	Ser	Asp	Lys	Ile	Pro
	1130					1135					1140			
Lys	Ala	Lys	Asp	Thr	Gln	Gly	Phe	Tyr	Gly	Thr	Val	Ser	Ser	Pro
	1145					1150					1155			
Asp	Ser	Gly	Val	Tyr	Glu	Met	Lys	Ile	Gly	Ser	Ile	Ile	Phe	Gln
	1160					1165					1170			
Val	Ala	Ser	Gly	Asp	Ile	Thr	Lys	Glu	Glu	Ala	Asp	Val	Ile	Val
	1175					1180					1185			
Asn	Ser	Thr	Ser	Asn	Ser	Phe	Asn	Leu	Lys	Ala	Gly	Val	Ser	Lys
	1190					1195					1200			
Ala	Ile	Leu	Glu	Cys	Ala	Gly	Gln	Asn	Val	Glu	Arg	Glu	Cys	Ser
	1205					1210					1215			
Gln	Gln	Ala	Gln	Gln	Arg	Lys	Asn	Asp	Tyr	Ile	Ile	Thr	Gly	Gly
	1220					1225					1230			
Gly	Phe	Leu	Arg	Cys	Lys	Asn	Ile	Ile	His	Val	Ile	Gly	Gly	Asn
	1235					1240					1245			
Asp	Val	Lys	Ser	Ser	Val	Ser	Ser	Val	Leu	Gln	Glu	Cys	Glu	Lys
	1250					1255					1260			
Lys	Asn	Tyr	Ser	Ser	Ile	Cys	Leu	Pro	Ala	Ile	Gly	Thr	Gly	Asn
	1265					1270					1275			
Ala	Lys	Gln	His	Pro	Asp	Lys	Val	Ala	Glu	Ala	Ile	Ile	Asp	Ala
	1280					1285					1290			
Ile	Glu	Asp	Phe	Val	Gln	Lys	Gly	Ser	Ala	Gln	Ser	Val	Lys	Lys
	1295					1300					1305			
Val	Lys	Val	Val	Ile	Phe	Leu	Pro	Gln	Val	Leu	Asp	Val	Phe	Tyr
	1310					1315					1320			
Ala	Asn	Met	Lys	Lys	Arg	Glu	Gly	Thr	Gln	Leu	Ser	Ser	Gln	Gln
	1325					1330					1335			
Ser	Val	Met	Ser	Lys	Leu	Ala	Ser	Phe	Leu	Gly	Phe	Ser	Lys	Gln
	1340					1345					1350			

311

Ser	Pro	Gln	Lys	Lys	Asn	His	Leu	Val	Leu	Glu	Lys	Lys	Thr	Glu
	1355					1360					1365			
Ser	Ala	Thr	Phe	Arg	Val	Cys	Gly	Glu	Asn	Val	Thr	Cys	Val	Glu
	1370					1375					1380			
Tyr	Ala	Ile	Ser	Trp	Leu	Gln	Asp	Leu	Ile	Glu	Lys	Glu	Gln	Cys
	1385					1390					1395			
Pro	Tyr	Thr	Ser	Glu	Asp	Glu	Cys	Ile	Lys	Asp	Phe	Asp	Glu	Lys
	1400					1405					1410			
Glu	Tyr	Gln	Glu	Leu	Asn	Glu	Leu	Gln	Lys	Lys	Leu	Asn	Ile	Asn
	1415					1420					1425			
Ile	Ser	Leu	Asp	His	Lys	Arg	Pro	Leu	Ile	Lys	Val	Leu	Gly	Ile
	1430					1435					1440			
Ser	Arg	Asp	Val	Met	Gln	Ala	Arg	Asp	Glu	Ile	Glu	Ala	Met	Ile
	1445					1450					1455			
Lys	Arg	Val	Arg	Leu	Ala	Lys	Glu	Gln	Glu	Ser	Arg	Ala	Asp	Cys
	1460					1465					1470			
Ile	Ser	Glu	Phe	Ile	Glu	Trp	Gln	Tyr	Asn	Asp	Asn	Asn	Thr	Ser
	1475					1480					1485			
His	Cys	Phe	Asn	Lys	Met	Thr	Asn	Leu	Lys	Leu	Glu	Asp	Ala	Arg
	1490					1495					1500			
Arg	Glu	Lys	Lys	Lys	Thr	Val	Asp	Val	Lys	Ile	Asn	His	Arg	His
	1505					1510					1515			
Tyr	Thr	Val	Asn	Leu	Asn	Thr	Tyr	Thr	Ala	Thr	Asp	Thr	Lys	Gly
	1520					1525					1530			
His	Ser	Leu	Ser	Val	Gln	Arg	Leu	Thr	Lys	Ser	Lys	Val	Asp	Ile
	1535					1540					1545			
Pro	Ala	His	Trp	Ser	Asp	Met	Lys	Gln	Gln	Asn	Phe	Cys	Val	Val
	1550					1555					1560			
Glu	Leu	Leu	Pro	Ser	Asp	Pro	Glu	Tyr	Asn	Thr	Val	Ala	Ser	Lys
	1565					1570					1575			

312

Phe Asn Gln Thr Cys Ser His Phe Arg Ile Glu Lys Ile Glu Arg
 1580 1585 1590

Ile Gln Asn Pro Asp Leu Trp Asn Ser Tyr Gln Ala Lys Lys Lys
 1595 1600 1605

Thr Met Asp Ala Lys Asn Gly Gln Thr Met Asn Glu Lys Gln Leu
 1610 1615 1620

Phe His Gly Thr Asp Ala Gly Ser Val Pro His Val Asn Arg Asn
 1625 1630 1635

Gly Phe Asn Arg Ser Tyr Ala Gly Lys Asn Ala Val Ala Tyr Gly
 1640 1645 1650

Lys Gly Thr Tyr Phe Ala Val Asn Ala Asn Tyr Ser Ala Asn Asp
 1655 1660 1665

Thr Tyr Ser Arg Pro Asp Ala Asn Gly Arg Lys His Val Tyr Tyr
 1670 1675 1680

Val Arg Val Leu Thr Gly Ile Tyr Thr His Gly Asn His Ser Leu
 1685 1690 1695

Ile Val Pro Pro Ser Lys Asn Pro Gln Asn Pro Thr Asp Leu Tyr
 1700 1705 1710

Asp Thr Val Thr Asp Asn Val His His Pro Ser Leu Phe Val Ala
 1715 1720 1725

Phe Tyr Asp Tyr Gln Ala Tyr Pro Glu Tyr Leu Ile Thr Phe Arg
 1730 1735 1740

Lys

<210> 233
 <211> 968
 <212> PRT
 <213> Homo sapien

<400> 233

Asn Ser Leu Ile Tyr Asn Val Ser Asn Tyr Gln Ser Phe Ile Val His
 1 5 10 15

Pro Ser Ser Thr Ser Ala Ser Phe Glu Gly Glu Cys Glu Val Arg Gln
 20 25 30

314

Lys Leu Asp Phe Asn Lys Met Pro Leu Ser Val Phe Pro Tyr Tyr Ala
 275 280 285

Ser Leu Gly Thr Ala Leu Tyr Gly Lys Glu Lys Pro Leu Ile Lys Leu
 290 295 300

Pro Ala Pro Phe Glu Glu Ser Leu Asp Leu Pro Leu Trp Lys Phe Leu
 305 310 315 320

Gln Lys Lys Asn His Leu Ile Glu Glu Ile Asn Asp Glu Met Arg Arg
 325 330 335

Cys His Cys Glu Leu Thr Trp Ser Gln Leu Ser Gly Lys Val Thr Ile
 340 345 350

Arg Pro Ala Ala Thr Leu Val Asn Glu Gly Arg Pro Arg Ile Lys Thr
 355 360 365

Trp Gln Ala Asp Thr Ser Thr Thr Leu Ser Ser Ile Arg Ser Lys Tyr
 370 375 380

Lys Val Asn Pro Ile Lys Val Asp Pro Thr Met Trp Asp Thr Ile Lys
 385 390 395 400

Asn Asp Val Lys Asp Asp Arg Ile Leu Ile Glu Phe Asp Thr Leu Lys
 405 410 415

Glu Met Val Ile Leu Ala Gly Lys Ser Glu Asp Val Gln Ser Ile Glu
 420 425 430

Val Gln Val Arg Glu Leu Ile Glu Ser Thr Thr Gln Lys Ile Lys Arg
 435 440 445

Glu Glu Gln Ser Leu Lys Glu Lys Met Ile Ile Ser Pro Gly Arg Tyr
 450 455 460

Phe Leu Leu Cys His Ser Ser Leu Leu Asp His Leu Leu Thr Glu Cys
 465 470 475 480

Pro Glu Ile Glu Ile Cys Tyr Asp Arg Val Thr Gln His Leu Cys Leu
 485 490 495

Lys Gly Pro Ser Ala Asp Val Tyr Lys Ala Lys Cys Glu Ile Gln Glu
 500 505 510

315

Lys Val Tyr Thr Met Ala Gln Lys Asn Ile Gln Val Ser Pro Glu Ile
 515 520 525

Phe Gln Phe Leu Gln Gln Val Asn Trp Lys Glu Phe Ser Lys Cys Leu
 530 535 540

Phe Ile Ala Gln Lys Ile Leu Ala Leu Tyr Glu Leu Glu Gly Thr Thr
 545 550 555 560

Val Leu Leu Thr Ser Cys Ser Ser Glu Ala Leu Leu Glu Ala Glu Lys
 565 570 575

Gln Met Leu Ser Ala Leu Asn Tyr Lys Arg Ile Glu Val Glu Asn Lys
 580 585 590

Glu Val Leu His Gly Lys Lys Trp Lys Gly Leu Thr His Asn Leu Leu
 595 600 605

Lys Lys Gln Asn Ser Ser Pro Asn Thr Val Ile Ile Asn Glu Leu Thr
 610 615 620

Ser Glu Thr Thr Ala Glu Val Ile Ile Thr Gly Cys Val Lys Glu Val
 625 630 635 640

Asn Glu Thr Tyr Lys Leu Leu Phe Asn Phe Val Glu Gln Asn Met Lys
 645 650 655

Ile Glu Arg Leu Val Glu Val Lys Pro Ser Leu Val Ile Asp Tyr Leu
 660 665 670

Lys Thr Glu Lys Lys Leu Phe Trp Pro Lys Ile Lys Lys Val Asn Val
 675 680 685

Gln Val Ser Phe Asn Pro Glu Asn Lys Gln Lys Gly Ile Leu Leu Thr
 690 695 700

Gly Ser Lys Thr Glu Val Leu Lys Ala Val Asp Ile Val Lys Gln Val
 705 710 715 720

Trp Asp Ser Val Cys Val Lys Ser Val His Thr Asp Lys Pro Gly Ala
 725 730 735

Lys Gln Phe Phe Gln Asp Lys Ala Arg Phe Tyr Gln Ser Glu Ile Lys
 740 745 750

Arg Leu Phe Gly Cys Tyr Ile Glu Leu Gln Glu Asn Glu Val Met Lys

316

755

760

765

Glu Gly Gly Ser Pro Ala Gly Gln Lys Cys Phe Ser Arg Thr Val Leu
 770 775 780

Ala Pro Gly Val Val Leu Ile Val Gln Gln Gly Asp Leu Ala Arg Leu
 785 790 795 800

Pro Val Asp Val Val Val Asn Ala Ser Asn Glu Asp Leu Lys His Tyr
 805 810 815

Gly Gly Leu Ala Ala Ala Leu Ser Lys Ala Ala Gly Pro Glu Leu Gln
 820 825 830

Ala Asp Cys Asp Gln Ile Val Lys Arg Glu Gly Arg Leu Leu Pro Gly
 835 840 845

Asn Ala Thr Ile Ser Lys Ala Gly Lys Leu Pro Tyr His His Val Ile
 850 855 860

His Ala Val Gly Pro Arg Trp Ser Gly Tyr Glu Ala Pro Arg Cys Val
 865 870 875 880

Tyr Leu Leu Arg Arg Ala Val Gln Leu Ser Leu Cys Leu Ala Glu Lys
 885 890 895

Tyr Lys Tyr Arg Ser Ile Ala Ile Pro Ala Ile Ser Ser Gly Val Phe
 900 905 910

Gly Phe Pro Leu Gly Arg Cys Val Glu Thr Ile Val Ser Ala Ile Lys
 915 920 925

Glu Asn Phe Gln Phe Lys Lys Asp Gly His Cys Leu Lys Glu Ile Tyr
 930 935 940

Leu Val Asp Val Ser Glu Lys Thr Val Glu Ala Phe Ala Asp Ala Val
 945 950 955 960

Gly Glu Arg Gly Cys Ala Glu Cys
 965

<210> 234
 <211> 282
 <212> PRT
 <213> Homo sapien
 <400> 234

317

Met Gln Arg Leu Arg Trp Leu Arg Asp Trp Lys Ser Ser Gly Arg Gly
 1 5 10 15
 Leu Thr Ala Ala Lys Glu Pro Gly Ala Arg Ser Ser Pro Leu Gln Ala
 20 25 30
 Met Arg Ile Leu Gln Leu Ile Leu Leu Ala Leu Ala Thr Gly Leu Val
 35 40 45
 Gly Gly Glu Thr Arg Ile Ile Lys Gly Phe Glu Cys Lys Pro His Ser
 50 55 60
 Gln Pro Trp Gln Ala Ala Leu Phe Glu Lys Thr Arg Leu Leu Cys Gly
 65 70 75 80
 Ala Thr Leu Ile Ala Pro Arg Trp Leu Leu Thr Ala Ala His Cys Leu
 85 90 95
 Lys Pro Arg Tyr Ile Val His Leu Gly Gln His Asn Leu Gln Lys Glu
 100 105 110
 Glu Gly Cys Glu Gln Thr Arg Thr Ala Thr Glu Ser Phe Pro His Pro
 115 120 125
 Gly Phe Asn Asn Ser Leu Pro Asn Lys Asp His Arg Asn Asp Ile Met
 130 135 140
 Leu Val Lys Met Ala Ser Pro Val Ser Ile Thr Trp Ala Val Arg Pro
 145 150 155 160
 Leu Thr Leu Ser Ser Arg Cys Val Thr Ala Gly Thr Ser Cys Leu Ile
 165 170 175
 Ser Gly Trp Gly Ser Thr Ser Ser Pro Gln Leu Arg Leu Pro His Thr
 180 185 190
 Leu Arg Cys Ala Asn Ile Thr Ile Ile Glu His Gln Lys Cys Glu Asn
 195 200 205
 Ala Tyr Pro Gly Asn Ile Thr Asp Thr Met Val Cys Ala Ser Val Gln
 210 215 220
 Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val
 225 230 235 240

318

Cys Asn Gln Ser Leu Gln Gly Ile Ile Ser Trp Gly Gln Asp Pro Cys
 245 250 255

Ala Ile Thr Arg Lys Pro Gly Val Tyr Thr Lys Val Cys Lys Tyr Val
 260 265 270

Asp Trp Ile Gln Glu Thr Met Lys Asn Asn
 275 280

<210> 235
 <211> 221
 <212> PRT
 <213> Homo sapien

<400> 235

Arg Gly Trp Lys Gln Ser Asp Val Ser Ser Ser Ser Lys Val Ser Leu
 1 5 10 15

Thr Ser Pro Thr His Val Ser Pro Asp Leu Ser Ser Ser Asn Tyr Cys
 20 25 30

Leu Ser His Leu Ser Arg Tyr Ile Val His Leu Gly Gln His Asn Leu
 35 40 45

Gln Lys Glu Glu Gly Cys Glu Gln Thr Arg Thr Ala Thr Glu Ser Phe
 50 55 60

Pro His Pro Gly Phe Asn Asn Ser Leu Pro Asn Lys Asp His Arg Asn
 65 70 75 80

Asp Ile Met Leu Val Lys Met Ala Ser Pro Val Ser Ile Thr Trp Ala
 85 90 95

Val Arg Pro Leu Thr Leu Ser Ser Arg Cys Val Thr Ala Gly Thr Ser
 100 105 110

Cys Leu Ile Ser Gly Trp Gly Ser Thr Ser Ser Pro Gln Leu Arg Leu
 115 120 125

Pro His Thr Leu Arg Cys Ala Asn Ile Thr Ile Ile Glu His Gln Lys
 130 135 140

Cys Glu Asn Ala Tyr Pro Gly Asn Ile Thr Asp Thr Met Val Cys Ala
 145 150 155 160

Ser Val Gln Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp Ser Gly Gly
 165 170 175

319

Pro Leu Val Cys Asn Gln Ser Leu Gln Gly Ile Ile Ser Trp Gly Gln
 180 185 190

Asp Pro Cys Ala Ile Thr Arg Lys Pro Gly Val Tyr Thr Lys Val Cys
 195 200 205

Lys Tyr Val Asp Trp Ile Gln Glu Thr Met Lys Asn Asn
 210 215 220

<210> 236
 <211> 34
 <212> PRT
 <213> Homo sapien

<400> 236

Leu Gly Thr Arg Gly His Phe His Glu Ser Pro Arg Lys Pro Gly Val
 1 5 10 15

Tyr Thr Lys Val Cys Lys Tyr Val Asp Trp Ile Gln Glu Thr Met Lys
 20 25 30

Asn Asn

<210> 237
 <211> 58
 <212> PRT
 <213> Homo sapien

<400> 237

Ala Arg Tyr Pro Trp Thr Phe Pro Arg Val Thr Pro Lys Ala Trp Cys
 1 5 10 15

Leu His Glu Ser Leu Gln Ile Cys Gly Leu Asp Pro Gly Asp Asp Glu
 20 25 30

Glu Gln Leu Asp Trp Thr His Pro Pro Gln Pro Ile Thr Leu His Phe
 35 40 45

His Leu Val Phe Gly Ser Cys Ser Leu Cys
 50 55

<210> 238
 <211> 140
 <212> PRT
 <213> Homo sapien

320

<400> 238

Gly Pro Gln Glu Leu His His Arg Trp Trp Ser Gly Trp Leu Arg Pro
 1 5 10 15

Trp Ser Phe Cys Ala Trp Ile Cys Ile Phe Ile Ala Leu Leu Val Glu
 20 25 30

Thr Pro Arg Pro Val His Pro Ala Lys Thr Pro Gln Ala Ala Cys Gly
 35 40 45

Ser Arg Thr Leu Pro Pro Phe Pro Arg Cys Pro Leu Arg Ala Arg Ala
 50 55 60

Ala Thr Gln Ala Cys Trp Leu Arg Pro Pro Leu Gly Gln Ala Leu Ala
 65 70 75 80

Gln Pro Ala Glu Trp Gly Val Val Gly Gln Ser Pro Arg Ser Trp Ala
 85 90 95

Pro Ala Gln Ala His Arg Ala Arg Pro His Pro Ala Ala Pro Arg Thr
 100 105 110

Ala Thr Arg Gly Val Leu Pro Leu Cys Pro Ala Pro Gly Thr Asn Ser
 115 120 125

Met Phe Gly Val Cys Leu Cys Leu Phe Phe Lys Lys
 130 135 140

<210> 239

<211> 151

<212> PRT

<213> Homo sapien

<400> 239

Arg Pro Pro Gly Leu Ser Thr Leu Pro Arg Leu Leu Arg Gln Arg Val
 1 5 10 15

Gly Pro Ala Leu Cys Pro His Phe Pro Asp Val Pro Cys Gly Arg Gly
 20 25 30

Gln Pro Pro Lys Pro Ala Gly Cys Gly Pro Leu Ser Ala Arg His Trp
 35 40 45

Leu Ser Pro Leu Ser Gly Gly Ser Trp Ala Ser Pro Arg Gly Ala Gly
 50 55 60

321

Pro Leu His Arg His Thr Gly Pro Gly His Thr Gln Arg Pro Pro Ala
65 70 75 80

Gln Pro Pro Val Gly Cys Cys Pro Tyr Ala Arg Arg Arg Ala Pro Thr
85 90 95

Pro Cys Leu Val Phe Val Cys Val Cys Phe Ser Arg Asn Asp Ser Asn
100 105 110

Cys Cys Leu Asp Phe Glu Ile Tyr Cys Asn Cys Gln Cys Thr Arg Leu
115 120 125

Asp Pro Val Ser Phe Leu His Gln Phe Gly Lys Asn Ala Ala Leu Ser
130 135 140

Leu Pro Gln Leu Asn Arg Met
145 150

<210> 240
<211> 402
<212> PRT
<213> Homo sapien

<400> 240

Met Arg Leu Leu Ser Gln Glu Trp Gly Arg Arg Lys Thr Trp Ala Glu
1 5 10 15

Asn Ser Ala Pro Ser Val Cys Pro Pro Ala Pro Pro Pro Gly Leu Glu
20 25 30

Lys Leu Pro Phe Arg Gly Ser Gln Glu Val Lys Trp Pro Thr Gln Leu
35 40 45

Leu Cys Arg Gly Arg Pro Gly Thr Ser Phe Ser Phe Ser Val His Leu
50 55 60

Tyr Thr Phe Pro Leu Phe Ser Leu His Phe Pro Gln Lys Ser Leu Pro
65 70 75 80

Leu Leu Glu Asn Gln Ile Lys Glu Thr His Gln Arg Ile Thr Glu Glu
85 90 95

Leu Gln Lys Tyr Gly Val Asp Ile Pro Glu Asp Glu Asn Glu Lys Met
100 105 110

Phe Phe Leu Ile Asp Lys Ile Asn Ala Phe Asn Gln Asp Ile Thr Ala
115 120 125

322

Leu Met Gln Gly Glu Glu Thr Val Gly Glu Glu Asp Ile Arg Leu Phe
 130 135 140

Thr Arg Leu Arg His Glu Phe His Lys Trp Ser Thr Ile Ile Glu Asn
 145 150 155 160

Asn Phe Gln Glu Gly His Lys Ile Leu Ser Arg Lys Ile Gln Lys Phe
 165 170 175

Glu Asn Gln Tyr Arg Gly Arg Glu Leu Pro Gly Phe Val Asn Tyr Arg
 180 185 190

Thr Phe Glu Thr Ile Val Lys Gln Gln Ile Lys Ala Leu Glu Glu Pro
 195 200 205

Ala Val Asp Met Leu His Thr Val Thr Asp Met Val Arg Leu Ala Phe
 210 215 220

Thr Asp Val Ser Ile Lys Asn Phe Glu Glu Phe Phe Asn Leu His Arg
 225 230 235 240

Thr Ala Lys Ser Lys Ile Glu Asp Ile Arg Ala Glu Gln Glu Arg Glu
 245 250 255

Gly Glu Lys Leu Ile Arg Leu His Phe Gln Met Glu Gln Ile Val Tyr
 260 265 270

Cys Gln Asp Gln Val Tyr Arg Gly Ala Leu Gln Lys Val Arg Glu Lys
 275 280 285

Glu Leu Glu Glu Glu Lys Lys Lys Lys Ser Trp Asp Phe Gly Ala Phe
 290 295 300

Gln Ser Ser Ser Ala Thr Asp Ser Ser Met Glu Glu Ile Phe Gln His
 305 310 315 320

Leu Met Ala Tyr His Gln Glu Ala Ser Lys Arg Ile Ser Ser His Ile
 325 330 335

Pro Leu Ile Ile Gln Phe Phe Met Leu Gln Thr Tyr Gly Gln Gln Leu
 340 345 350

Gln Lys Ala Met Leu Gln Leu Leu Gln Asp Lys Asp Thr Tyr Ser Trp
 355 360 365

323

Leu Leu Lys Glu Arg Ser Asp Thr Ser Asp Lys Arg Lys Phe Leu Lys
 370 375 380

Glu Arg Leu Ala Arg Leu Thr Gln Ala Arg Arg Arg Leu Ala Gln Phe
 385 390 395 400

Pro Gly

<210> 241
 <211> 155
 <212> PRT
 <213> Homo sapien

<400> 241

Lys Glu Ser Leu Tyr His Lys Lys Val Leu Asp Tyr Val Ile Cys Val
 1 5 10 15

Cys Ala Ala Ser Gly Val Leu Phe Pro Asn Pro Arg Ile Gly Asp His
 20 25 30

Phe Asn Gln Phe Gly His Gln Glu Asn Cys Gln Asn Glu Glu Ile Leu
 35 40 45

Asn Ser Leu Lys Tyr Val Arg Pro Gly Gly Gly Tyr Gln Pro Thr Phe
 50 55 60

Thr Leu Val Gln Lys Cys Glu Val Asn Gly Gln Asn Glu His Pro Val
 65 70 75 80

Phe Ala Tyr Leu Lys Asp Lys Leu Pro Tyr Pro Tyr Asp Asp Pro Phe
 85 90 95

Ser Leu Met Thr Asp Pro Lys Leu Ile Ile Trp Ser Pro Val Arg Arg
 100 105 110

Ser Asp Val Ala Trp Asn Phe Glu Lys Phe Leu Ile Gly Pro Glu Gly
 115 120 125

Glu Pro Phe Arg Arg Tyr Ser Arg Thr Phe Pro Thr Ile Asn Ile Glu
 130 135 140

Pro Asp Ile Lys Arg Leu Leu Lys Val Ala Ile
 145 150 155

<210> 242

324

<211> 133
 <212> PRT
 <213> Homo sapien
 <220>
 <221> MISC_FEATURE
 <222> (1)..(4)
 <223> x=any amino acid

<400> 242

Xaa Xaa Xaa Xaa Pro Arg Ile Gly Asp His Phe Asn Gln Phe Gly His
 1 5 10 15
 Gln Glu Asn Cys Gln Asn Glu Glu Ile Leu Asn Ser Leu Lys Tyr Val
 20 25 30
 Arg Pro Gly Gly Gly Tyr Gln Pro Thr Phe Thr Leu Val Gln Lys Cys
 35 40 45
 Glu Val Asn Gly Gln Asn Glu His Pro Val Phe Ala Tyr Leu Lys Asp
 50 55 60
 Lys Leu Pro Tyr Pro Tyr Asp Asp Pro Phe Ser Leu Met Thr Asp Pro
 65 70 75 80
 Lys Leu Ile Ile Trp Ser Pro Val Arg Arg Ser Asp Val Ala Trp Asn
 85 90 95
 Phe Glu Lys Phe Leu Ile Gly Pro Glu Gly Glu Pro Phe Arg Arg Tyr
 100 105 110
 Ser Arg Thr Phe Pro Thr Ile Asn Ile Glu Pro Asp Ile Lys Arg Leu
 115 120 125
 Leu Lys Val Ala Ile
 130

<210> 243
 <211> 126
 <212> PRT
 <213> Homo sapien

<400> 243

Met Thr Ser Val Pro Ser Ala Trp Met Gly Glu Asn Cys Gln Asn Glu
 1 5 10 15
 Glu Ile Leu Asn Ser Leu Lys Tyr Val Arg Pro Gly Gly Gly Tyr Gln
 20 25 30

325

Pro Thr Phe Thr Leu Val Gln Lys Cys Glu Val Asn Gly Gln Asn Glu
 35 40 45

His Pro Val Phe Ala Tyr Leu Lys Asp Lys Leu Pro Tyr Pro Tyr Asp
 50 55 60

Asp Pro Phe Ser Leu Met Thr Asp Pro Lys Leu Ile Ile Trp Ser Pro
 65 70 75 80

Val Arg Arg Ser Asp Val Ala Trp Asn Phe Glu Lys Phe Leu Ile Gly
 85 90 95

Pro Glu Gly Glu Pro Phe Arg Arg Tyr Ser Arg Thr Phe Pro Thr Ile
 100 105 110

Asn Ile Glu Pro Asp Ile Lys Arg Leu Leu Lys Val Ala Ile
 115 120 125

<210> 244
 <211> 150
 <212> PRT
 <213> Homo sapien

<400> 244

Met Thr Leu Gly Arg Glu Cys Arg Arg Val Lys Glu Phe His Val Val
 1 5 10 15

Asp Leu Ser Leu Pro Pro Pro Thr Val His Ala Leu Cys Leu Phe Pro
 20 25 30

Pro Gln Glu Asn Cys Gln Asn Glu Glu Ile Leu Asn Ser Leu Lys Tyr
 35 40 45

Val Arg Pro Gly Gly Gly Tyr Gln Pro Thr Phe Thr Leu Val Gln Lys
 50 55 60

Cys Glu Val Asn Gly Gln Asn Glu His Pro Val Phe Ala Tyr Leu Lys
 65 70 75 80

Asp Lys Leu Pro Tyr Pro Tyr Asp Asp Pro Phe Ser Leu Met Thr Asp
 85 90 95

Pro Lys Leu Ile Ile Trp Ser Pro Val Arg Arg Ser Asp Val Ala Trp
 100 105 110

326

Asn Phe Glu Lys Phe Leu Ile Gly Pro Glu Gly Glu Pro Phe Arg Arg
 115 120 125

Tyr Ser Arg Thr Phe Pro Thr Ile Asn Ile Glu Pro Asp Ile Lys Arg
 130 135 140

Leu Leu Lys Val Ala Ile
 145 150

<210> 245
 <211> 186
 <212> PRT
 <213> Homo sapien

<400> 245

Met Glu Ser Gln Glu Pro Thr Glu Ser Ser Gln Asn Gly Lys Gln Tyr
 1 5 10 15

Ile Ile Ser Glu Glu Leu Ile Ser Glu Gly Lys Trp Val Lys Leu Glu
 20 25 30

Lys Thr Thr Tyr Met Asp Pro Thr Gly Lys Thr Arg Thr Trp Glu Ser
 35 40 45

Val Lys Arg Thr Thr Arg Lys Glu Gln Thr Ala Asp Gly Val Ala Val
 50 55 60

Ile Pro Val Leu Gln Arg Thr Leu His Tyr Glu Cys Ile Val Leu Val
 65 70 75 80

Lys Gln Phe Arg Pro Pro Met Gly Gly Tyr Cys Ile Glu Phe Pro Ala
 85 90 95

Gly Leu Ile Asp Asp Gly Glu Thr Pro Glu Ala Ala Ala Leu Arg Glu
 100 105 110

Leu Glu Glu Glu Thr Gly Tyr Lys Gly Asp Ile Ala Glu Cys Ser Pro
 115 120 125

Ala Val Cys Met Asp Pro Gly Leu Ser Asn Cys Thr Ile His Ile Val
 130 135 140

Thr Val Thr Ile Asn Gly Asp Asp Ala Glu Asn Ala Arg Pro Lys Pro
 145 150 155 160

Lys Pro Gly Asp Gly Cys Val Ser Ala Val Met Lys Val Val Trp Leu
 165 170 175

327

His Tyr Val Ser Trp Asn Leu Leu Leu Val
 180 185

<210> 246
 <211> 191
 <212> PRT
 <213> Homo sapien

<400> 246

Met Leu Leu Ala Asp Gln Gly Gln Ser Trp Lys Glu Glu Val Val Thr
 1 5 10 15

Val Glu Thr Trp Gln Glu Gly Ser Leu Lys Ala Ser Cys Leu Tyr Gly
 20 25 30

Gln Leu Pro Lys Phe Gln Asp Gly Asp Leu Thr Leu Tyr Gln Ser Asn
 35 40 45

Thr Ile Leu Arg His Leu Gly Arg Thr Leu Gly Leu Tyr Gly Lys Asp
 50 55 60

Gln Gln Glu Ala Ala Leu Val Asp Met Val Asn Asp Gly Val Glu Asp
 65 70 75 80

Leu Arg Cys Lys Tyr Ile Ser Leu Ile Tyr Thr Asn Tyr Glu Ala Gly
 85 90 95

Lys Asp Asp Tyr Val Lys Ala Leu Pro Gly Gln Leu Lys Pro Phe Glu
 100 105 110

Thr Leu Leu Ser Gln Asn Gln Gly Gly Lys Thr Phe Ile Val Gly Asp
 115 120 125

Gln Ile Ser Phe Ala Asp Tyr Asn Leu Leu Asp Leu Leu Leu Ile His
 130 135 140

Glu Val Leu Ala Pro Gly Cys Leu Asp Ala Phe Pro Leu Leu Ser Ala
 145 150 155 160

Tyr Val Gly Arg Leu Ser Ala Arg Pro Lys Leu Lys Ala Phe Leu Ala
 165 170 175

Ser Pro Glu Tyr Val Asn Leu Pro Ile Asn Gly Asn Gly Lys Gln
 180 185 190

328

<210> 247
 <211> 146
 <212> PRT
 <213> Homo sapien

<400> 247

Met Leu Leu Ala Asp Gln Gly Gln Ser Trp Lys Glu Glu Val Val Thr
 1 5 10 15

Val Glu Thr Trp Gln Glu Gly Ser Leu Lys Ala Ser Cys Leu Tyr Gly
 20 25 30

Gln Leu Pro Lys Phe Gln Asp Gly Asp Leu Thr Leu Tyr Gln Ser Asn
 35 40 45

Thr Ile Leu Arg His Leu Gly Arg Thr Leu Gly Leu Tyr Gly Lys Asp
 50 55 60

Gln Gln Glu Ala Ala Leu Val Asp Met Val Asn Asp Gly Val Glu Asp
 65 70 75 80

Leu Arg Cys Lys Tyr Ile Ser Leu Ile Tyr Thr Asn Tyr Glu Ala Gly
 85 90 95

Lys Asp Asp Tyr Val Lys Ala Leu Pro Gly Gln Leu Lys Pro Phe Glu
 100 105 110

Thr Leu Leu Ser Gln Asn Gln Gly Gly Lys Thr Phe Ile Val Gly Asp
 115 120 125

Gln Ile Ser Phe Ala Asp Tyr Lys Leu Arg Thr Arg Arg Tyr Arg Ala
 130 135 140

Arg Phe
 145

<210> 248
 <211> 179
 <212> PRT
 <213> Homo sapien

<220>
 <221> MISC_FEATURE
 <222> (172)..(172)
 <223> x=any amino acid

<400> 248

Arg Ser Arg Thr Gly Arg Val Gly Ala Ala Val Phe Ala Thr Met Pro

1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175

Pro Tyr Thr Val Val Tyr Phe Pro Val Arg Gly Arg Cys Ala Ala Leu
 Arg Met Leu Leu Ala Asp Gln Gly Gln Ser Trp Lys Glu Glu Val Val
 Thr Val Glu Thr Trp Gln Glu Gly Ser Leu Lys Ala Ser Cys Leu Tyr
 Gly Gln Leu Pro Lys Phe Gln Asp Gly Asp Leu Thr Leu Tyr Gln Ser
 Asn Thr Ile Leu Arg His Leu Gly Arg Thr Leu Gly Leu Tyr Gly Lys
 Asp Gln Gln Glu Ala Ala Leu Val Asp Met Val Asn Asp Gly Val Glu
 Asp Leu Arg Cys Lys Tyr Ile Ser Leu Ile Tyr Thr Asn Tyr Glu Ala
 Gly Lys Asp Asp Tyr Val Lys Ala Leu Pro Gly Gln Leu Lys Pro Phe
 Glu Thr Leu Leu Ser Gln Asn Gln Gly Gly Lys Thr Phe Ile Val Gly
 Asp Gln Ile Ser Phe Ala Asp Tyr Lys Leu Arg Xaa Arg Arg Tyr Arg
 Ala Arg Phe

<210> 249
 <211> 191
 <212> PRT
 <213> Homo sapien
 <400> 249

Met Leu Leu Ala Asp Gln Gly Gln Ser Trp Lys Glu Glu Val Val Thr
 Val Glu Thr Trp Gln Glu Gly Ser Leu Lys Ala Ser Cys Leu Tyr Gly

330

Gln Leu Pro Lys Phe Gln Asp Gly Asp Leu Thr Leu Tyr Gln Ser Asn
 35 40 45

Thr Ile Leu Arg His Leu Gly Arg Thr Leu Gly Leu Tyr Gly Lys Asp
 50 55 60

Gln Gln Glu Ala Ala Leu Val Asp Met Val Asn Asp Gly Val Glu Asp
 65 70 75 80

Leu Arg Cys Lys Tyr Ile Ser Leu Ile Tyr Thr Asn Tyr Glu Ala Gly
 85 90 95

Lys Asp Asp Tyr Val Lys Ala Leu Pro Gly Gln Leu Lys Pro Phe Glu
 100 105 110

Thr Leu Leu Ser Gln Asn Gln Gly Gly Lys Thr Phe Ile Val Gly Asp
 115 120 125

Gln Ile Ser Phe Ala Asp Tyr Asn Leu Leu Asp Leu Leu Leu Ile His
 130 135 140

Glu Val Leu Ala Pro Gly Cys Leu Asp Ala Phe Pro Leu Leu Ser Ala
 145 150 155 160

Tyr Val Gly Arg Leu Ser Ala Arg Pro Lys Leu Lys Ala Phe Leu Ala
 165 170 175

Ser Pro Glu Tyr Val Asn Leu Pro Ile Asn Gly Asn Gly Lys Gln
 180 185 190

<210> 250
 <211> 236
 <212> PRT
 <213> Homo sapien

<400> 250

Gly Ser Glu Ala Ala Arg Leu Arg Trp Ser Phe Ala Ala Ala Val Phe
 1 5 10 15

Ala Thr Thr Asn Phe Ser Leu Phe Ala Thr Met Pro Pro Tyr Thr Val
 20 25 30

Val Tyr Phe Pro Val Arg Gly Arg Cys Ala Ala Leu Arg Met Leu Leu
 35 40 45

Ala Asp Gln Gly Gln Ser Trp Lys Glu Glu Val Val Thr Val Glu Thr

331

50

55

60

Trp Gln Glu Gly Ser Leu Lys Ala Ser Cys Leu Tyr Gly Gln Leu Pro
65 70 75 80

Lys Phe Gln Asp Gly Asp Leu Thr Leu Tyr Gln Ser Asn Thr Ile Leu
85 90 95

Arg His Leu Gly Arg Thr Leu Gly Leu Tyr Gly Lys Asp Gln Gln Glu
100 105 110

Ala Ala Leu Val Asp Met Val Asn Asp Gly Val Glu Asp Leu Arg Cys
115 120 125

Lys Tyr Ile Ser Leu Ile Tyr Thr Asn Tyr Glu Ala Gly Lys Asp Asp
130 135 140

Tyr Val Lys Ala Leu Pro Gly Gln Leu Lys Pro Phe Glu Thr Leu Leu
145 150 155 160

Ser Gln Asn Gln Gly Gly Lys Thr Phe Ile Val Gly Asp Gln Ile Ser
165 170 175

Phe Ala Asp Tyr Asn Leu Leu Asp Leu Leu Leu Ile His Glu Val Leu
180 185 190

Ala Pro Gly Cys Leu Asp Ala Phe Pro Leu Leu Ser Ala Tyr Val Gly
195 200 205

Arg Leu Ser Ala Arg Pro Lys Leu Lys Ala Phe Leu Ala Ser Pro Glu
210 215 220

Tyr Val Asn Leu Pro Ile Asn Gly Asn Gly Lys Gln
225 230 235

<210> 251
<211> 291
<212> PRT
<213> Homo sapien

<400> 251

Met Ser Gln Gly Pro Gly Val Pro Thr Gly Ser Gly Arg Tyr Pro Trp
1 5 10 15

Val Leu Cys Trp Tyr Cys Leu Val Leu Glu Leu Leu Leu Ala Leu Gly
20 25 30

Arg	Ala	Val	Leu	Gly	Pro	Ser	Gly	Trp	Leu	Gly	Ser	Gly	Pro	Pro	Ser	
		35					40					45				
Gly	Glu	His	Thr	Cys	Leu	Gly	Gly	Ser	Ala	Val	Gly	Pro	Phe	Ser	Ala	
	50					55					60					
Pro	Ser	Gln	Val	Gly	Phe	Glu	Val	Leu	Pro	Gly	Ala	Ala	Cys	Leu	Gln	
65					70					75					80	
Gly	Pro	Pro	Val	Leu	Leu	Gly	Ser	Ala	Gly	Gly	Gln	Val	Ser	Asp	Ser	
				85					90					95		
Arg	Gly	Phe	Leu	Ser	Ser	Pro	Pro	Cys	Arg	Pro	Thr	Pro	Trp	Ser	Ile	
			100					105					110			
Ser	Gln	Phe	Glu	Ala	Ala	Ala	Arg	Pro	Trp	Arg	Met	Leu	Leu	Ala	Asp	
		115					120					125				
Gln	Gly	Gln	Ser	Trp	Lys	Glu	Glu	Val	Val	Thr	Val	Glu	Thr	Trp	Gln	
	130					135					140					
Glu	Gly	Ser	Leu	Lys	Ala	Ser	Cys	Leu	Tyr	Gly	Gln	Leu	Pro	Lys	Phe	
145					150					155					160	
Gln	Asp	Gly	Asp	Leu	Thr	Leu	Tyr	Gln	Ser	Asn	Thr	Ile	Leu	Arg	His	
				165					170					175		
Leu	Gly	Arg	Thr	Leu	Gly	Leu	Tyr	Gly	Lys	Asp	Gln	Gln	Glu	Ala	Ala	
			180					185					190			
Leu	Val	Asp	Met	Val	Asn	Asp	Gly	Val	Glu	Asp	Leu	Arg	Cys	Lys	Tyr	
		195					200					205				
Ile	Ser	Leu	Ile	Tyr	Thr	Asn	Tyr	Glu	Ala	Gly	Lys	Asp	Asp	Tyr	Val	
	210					215					220					
Lys	Ala	Leu	Pro	Gly	Gln	Leu	Lys	Pro	Phe	Glu	Thr	Leu	Leu	Ser	Gln	
225					230					235					240	
Asn	Gln	Gly	Gly	Lys	Thr	Phe	Ile	Val	Gly	Asp	Gln	Ile	Ser	Phe	Ala	
				245					250					255		
Asp	Tyr	Asn	Leu	Leu	Asp	Leu	Leu	Leu	Ile	His	Glu	Val	Leu	Ala	Pro	
			260					265					270			

333

Gly Cys Leu Asp Ala Phe Arg Pro Ser Ser Arg Pro Ser Trp Pro Pro
 275 280 285

Leu Ser Thr .
 290

<210> 252
 <211> 302
 <212> PRT
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<400> 252

Asp Pro Gly Val Ala Ala Gly Arg Ala Gly Arg Met Ser Gln Gly Pro
 1 5 10 15

Gly Val Pro Thr Gly Ser Gly Arg Tyr Pro Trp Val Leu Cys Trp Tyr
 20 25 30

Cys Leu Val Leu Glu Leu Leu Leu Ala Leu Gly Arg Ala Val Leu Gly
 35 40 45

Pro Ser Gly Trp Leu Gly Ser Gly Pro Pro Ser Gly Glu His Thr Cys
 50 55 60

Leu Gly Gly Ser Ala Val Gly Pro Phe Ser Ala Pro Ser Gln Val Gly
 65 70 75 80

Phe Glu Val Leu Pro Gly Ala Ala Cys Leu Gln Gly Pro Pro Val Leu
 85 90 95

Thr Gly Leu Arg Arg Gly Ala Gly Phe Arg Leu Pro Gly Leu Leu Val
 100 105 110

Phe Ala Thr Met Pro Pro Tyr Thr Val Val Tyr Phe Pro Val Arg Gly
 115 120 125

Arg Cys Ala Ala Leu Arg Met Leu Leu Ala Asp Gln Gly Gln Ser Trp
 130 135 140

Lys Glu Glu Val Val Thr Val Glu Thr Trp Gln Glu Gly Ser Leu Lys
 145 150 155 160

Ala Ser Cys Leu Tyr Gly Gln Leu Pro Lys Phe Gln Asp Gly Asp Leu
 165 170 175

Thr Leu Tyr Gln Ser Asn Thr Ile Leu Arg His Leu Gly Arg Thr Leu
 180 185 190

Gly Leu Tyr Gly Lys Asp Gln Gln Glu Ala Ala Leu Val Asp Met Val
 195 200 205

Asn Asp Gly Val Glu Asp Leu Arg Cys Lys Tyr Ile Ser Leu Ile Tyr
 210 215 220

Thr Asn Tyr Glu Ala Gly Lys Asp Asp Tyr Val Lys Ala Leu Pro Gly
 225 230 235 240

Gln Leu Lys Pro Phe Glu Thr Leu Leu Ser Gln Asn Gln Gly Gly Lys
 245 250 255

Thr Phe Ile Val Gly Asp Gln Ile Ser Phe Ala Asp Tyr Asn Leu Leu
 260 265 270

Asp Leu Leu Leu Ile His Glu Val Leu Ala Pro Gly Cys Leu Asp Ala
 275 280 285

Phe Arg Pro Ser Ser Arg Pro Ser Trp Pro Pro Leu Ser Thr
 290 295 300

<210> 253
 <211> 226
 <212> PRT
 <213> Homo sapien

<400> 253

Met Ser Gln Gly Pro Gly Val Pro Thr Gly Ser Gly Arg Tyr Pro Trp
 1 5 10 15

Val Leu Cys Trp Tyr Cys Leu Val Leu Glu Leu Leu Leu Ala Leu Gly
 20 25 30

Arg Ala Val Leu Gly Pro Ser Gly Trp Leu Gly Ser Gly Pro Pro Ser
 35 40 45

Gly Glu His Thr Cys Leu Gly Gly Ser Ala Val Gly Pro Phe Ser Ala
 50 55 60

Pro Ser Gln Val Gly Phe Glu Val Leu Pro Gly Ala Ala Cys Leu Gln
 65 70 75 80

Gly Pro Pro Val Leu Leu Gly Ser Ala Gly Gly Gln Val Ser Asp Ser
 85 90 95

335

Arg Gly Phe Leu Ser Ser Pro Pro Cys Arg Pro Thr Pro Trp Ser Ile
 100 105 110

Ser Gln Phe Glu Ala Ala Ala Arg Pro Trp Arg Met Leu Leu Ala Asp
 115 120 125

Gln Gly Gln Ser Trp Lys Glu Glu Val Val Thr Val Glu Thr Trp Gln
 130 135 140

Glu Gly Ser Leu Lys Ala Ser Cys Leu Tyr Gly Gln Leu Pro Lys Phe
 145 150 155 160

Gln Asp Gly Asp Leu Thr Leu Tyr Gln Ser Asn Thr Ile Leu Arg His
 165 170 175

Leu Gly Arg Thr Leu Gly Leu Tyr Gly Lys Asp Gln Gln Glu Ala Ala
 180 185 190

Leu Val Asp Met Val Asn Asp Gly Val Glu Asp Leu Arg Cys Lys Tyr
 195 200 205

Ile Ser Leu Ile Tyr Thr Asn Tyr Ala Gln Ala Gln Gly Leu Pro Gly
 210 215 220

Leu Pro
 225

<210> 254
 <211> 237
 <212> PRT
 <213> Homo sapien

<400> 254

Asp Pro Gly Val Ala Ala Gly Arg Ala Gly Arg Met Ser Gln Gly Pro
 1 5 10 15

Gly Val Pro Thr Gly Ser Gly Arg Tyr Pro Trp Val Leu Cys Trp Tyr
 20 25 30

Cys Leu Val Leu Glu Leu Leu Leu Ala Leu Gly Arg Ala Val Leu Gly
 35 40 45

Pro Ser Gly Trp Leu Gly Ser Gly Pro Pro Ser Gly Glu His Thr Cys
 50 55 60

Leu Gly Gly Ser Ala Val Gly Pro Phe Ser Ala Pro Ser Gln Val Gly
 65 70 75 80

336

Phe Glu Val Leu Pro Gly Ala Ala Cys Leu Gln Gly Pro Pro Val Leu
 85 90 95

Thr Gly Leu Arg Arg Gly Ala Gly Phe Arg Leu Pro Gly Leu Leu Val
 100 105 110

Phe Ala Thr Met Pro Pro Tyr Thr Val Val Tyr Phe Pro Val Arg Gly
 115 120 125

Arg Cys Ala Ala Leu Arg Met Leu Leu Ala Asp Gln Gly Gln Ser Trp
 130 135 140

Lys Glu Glu Val Val Thr Val Glu Thr Trp Gln Glu Gly Ser Leu Lys
 145 150 155 160

Ala Ser Cys Leu Tyr Gly Gln Leu Pro Lys Phe Gln Asp Gly Asp Leu
 165 170 175

Thr Leu Tyr Gln Ser Asn Thr Ile Leu Arg His Leu Gly Arg Thr Leu
 180 185 190

Gly Leu Tyr Gly Lys Asp Gln Gln Glu Ala Ala Leu Val Asp Met Val
 195 200 205

Asn Asp Gly Val Glu Asp Leu Arg Cys Lys Tyr Ile Ser Leu Ile Tyr
 210 215 220

Thr Asn Tyr Ala Gln Ala Gln Gly Leu Pro Gly Leu Pro
 225 230 235

<210> 255
 <211> 129
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337

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<400> 255

Ala Gly Leu Pro Gly Arg Gly Gly Gly Gln Ala Lys Val Asn Lys Thr
 1 5 10 15

Xaa Arg Gly Gly Cys Xaa His Ala Pro Gly Gly Leu Ile Ala Xaa Ser
 20 25 30

338

Val Glu Ser Ala Pro Arg Tyr Ser Xaa Gly Pro Ala Leu Leu Pro Arg
35 40 45

Gln Pro Leu Lys Asp Ser Xaa Gln Gly Gly Thr Gly Gln Ala Gly Xaa
50 55 60

Arg Xaa Ser Gln Asn Leu Thr Arg Cys Ala Gly Arg Gly Arg Gly Leu
65 70 75 80

Gly Ala Xaa Phe Ala Pro Ser Pro Gly Asn Gly Cys Ala Arg Lys Glu
85 90 95

Tyr Cys Arg His Leu Asn Gly Leu Pro Gly Ile Phe Lys Gln Lys Ala
100 105 110

Lys Xaa Cys Cys Xaa Lys Ser Ile Ala Asp Gln Ala Ser Arg Phe Leu
115 120 125

Xaa

<210> 256
<211> 134
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<223> x=any amino acid

<400> 256

Ala	Gly	Leu	Pro	Gly	Arg	Gly	Gly	Gly	Gln	Ala	Lys	Val	Asn	Lys	Thr
1				5					10					15	

Xaa	Arg	Gly	Gly	Cys	Xaa	His	Ala	Pro	Gly	Gly	Leu	Ile	Ala	Xaa	Ser
		20						25					30		

Val	Glu	Ser	Ala	Pro	Arg	Xaa	Ser	Xaa	Gly	Pro	Ala	Leu	Leu	Pro	Arg
		35					40					45			

Gln	Pro	Leu	Lys	Asp	Ser	Xaa	Gln	Gly	Gly	Thr	Gly	Gln	Ala	Gly	Xaa
		50				55					60				

340

Arg Xaa Ser Gln Asn Leu Thr Arg Cys Ala Gly Arg Gly Arg Gly Leu
65 70 75 80

Gly Ala Xaa Phe Ala Pro Ser Pro Gly Asn Gly Cys Ala Arg Lys Glu
85 90 95

Tyr Cys Arg His Leu Asn Gly Leu Pro Gly Ile Phe Lys Gln Lys Ala
100 105 110

Lys Xaa Cys Cys Xaa Lys Ser Ile Ala Asp Gln Ala Ser Arg Phe Leu
115 120 125

Xaa Ile Phe Phe Ile Ser
130

<210> 257
<211> 128
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<213> Homo sapien

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341

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<223> x=any amino acid

<400> 257

Thr Arg Gln Pro Asp Ala Xaa Asp Gly Asp Ser Tyr Asp Pro Tyr Asp
1 5 10 15

Phe Ser Asp Xaa Glu Glu Xaa Asn Ala Ile Lys Xaa Thr Leu Xaa Lys
20 25 30

Thr Ala Xaa Ser Gln Glu Thr Lys Glu Ser Xaa Xaa Xaa Glu Leu Ser

342

35

40

45

Glu Ser Arg Leu Lys Ala Phe Lys Val Xaa Leu Xaa Asp Val Phe Arg
 50 55 60

Glu Ala His Ala Gln Ser Ile Gly Met Asn Arg Leu Thr Glu Ser Ile
 65 70 75 80

Asn Arg Asp Ser Glu Glu Pro Phe Ser Ser Val Glu Ile Gln Ala Ala
 85 90 95

Leu Ser Lys Met Gln Asp Asp Asn Gln Val Met Val Ser Glu Gly Ile
 100 105 110

Ile Trp Xaa Val Gly Gly Gly Val Xaa Xaa Gly Xaa Gly Xaa Cys Xaa
 115 120 125

<210> 258

<211> 120

<212> PRT

<213> Homo sapien

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343

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<223> x=any amino acid

<400> 258

Xaa Xaa Gly Gly Lys Cys Leu Lys Xaa Thr Leu Xaa Lys Thr Ala Xaa
1 5 10 15

Ser Gln Glu Thr Lys Glu Ser Xaa Xaa Xaa Glu Leu Ser Glu Ser Arg
20 25 30

Leu Lys Ala Phe Lys Val Xaa Leu Xaa Asp Val Phe Arg Glu Ala His
35 40 45

Ala Gln Ser Ile Gly Met Asn Arg Leu Thr Glu Ser Ile Asn Arg Asp
50 55 60

344

Ser Glu Glu Pro Phe Ser Ser Val Glu Ile Gln Ala Ala Leu Ser Lys
65 70 75 80

Met Gln Asp Asp Asn Gln Val Met Val Ser Glu Gly Ile Ile Trp Xaa
85 90 95

Val Gly Gly Gly Val Xaa Xaa Gly Xaa Gly Xaa Cys Xaa Glu Ser Leu
100 105 110

Phe Cys Val Ser His Ala Ser Xaa
115 120

<210> 259
<211> 254
<212> PRT
<213> Homo sapien

<400> 259

Met Arg Ile Ala Val Ile Cys Phe Cys Leu Leu Gly Ile Thr Cys Ala
1 5 10 15

Ile Pro Val Lys Gln Ala Asp Ser Gly Ser Ser Glu Glu Lys Gln Leu
20 25 30

Tyr Asn Lys Tyr Pro Asp Ala Val Ala Thr Trp Leu Asn Pro Asp Pro
35 40 45

Ser Gln Lys Gln Asn Leu Leu Ala Pro Gln Asn Ala Val Ser Ser Glu
50 55 60

Glu Thr Asn Asp Phe Lys Gln Glu Thr Leu Pro Ser Lys Ser Asn Glu
65 70 75 80

Ser His Asp His Met Asp Asp Met Asp Asp Glu Asp Asp Asp Asp His
85 90 95

Val Asp Ser Gln Asp Ser Ile Asp Ser Asn Asp Ser Asp Asp Val Asp
100 105 110

Asp Thr Asp Asp Ser His Gln Ser Asp Glu Ser His His Ser Asp Glu
115 120 125

Ser Asp Glu Leu Val Thr Asp Phe Pro Thr Asp Leu Pro Ala Thr Glu
130 135 140

345

Val Phe Thr Pro Val Val Pro Thr Val Asp Thr Tyr Asp Gly Arg Gly
145 150 155 160

Asp Ser Val Val Met Asp Leu Arg Ser Lys Ser Lys Lys Leu Arg Arg
165 170 175

Pro Glu Tyr Ser Thr Leu Met Leu Gln Thr Arg Thr Ser Ala His Asn
180 185 190

Gly Lys Arg Gly Val Asp Met Val His Thr Arg Ala Pro Arg Gly Gln
195 200 205

Thr Asp Thr Ala Pro Arg Ala Ala Gly His Ala Asn Thr Lys Ser Ser
210 215 220

Ala Asp Gln Pro Asn Arg Asp Arg His Lys Thr Ala Asp Glu Lys Glu
225 230 235 240

Pro Glu Asp Glu Thr Gln Arg Ser Ala Thr Glu Gly His Lys
245 250

<210> 260
<211> 212
<212> PRT
<213> Homo sapien

<400> 260

Ala Ser Leu Val Thr Ser Ser Asn Tyr Ile Ser Arg Lys Leu Glu Glu
1 5 10 15

Glu Ala Glu His Ser Ile Val Gly Thr Arg Leu Val Ser Gly Gln Leu
20 25 30

Gln Pro Ser Gln Pro Asn Ala Asp Gln Gly Lys Leu Thr Thr Met Arg
35 40 45

Ile Ala Val Ile Cys Phe Cys Leu Leu Gly Ile Thr Cys Ala Ile Pro
50 55 60

Val Lys Gln Ala Asp Ser Gly Ser Ser Glu Glu Lys Gln Leu Tyr Asn
65 70 75 80

Lys Tyr Pro Asp Ala Val Ala Thr Trp Leu Asn Pro Asp Pro Ser Gln
85 90 95

Lys Gln Asn Leu Leu Ala Pro Gln Asn Ala Val Ser Ser Glu Glu Thr
100 105 110

346

Asn Asp Phe Lys Gln Glu Thr Leu Pro Ser Lys Ser Asn Glu Ser His
 115 120 125

Asp His Met Asp Asp Met Asp Asp Glu Asp Asp Asp Asp His Val Asp
 130 135 140

Ser Gln Asp Ser Ile Asp Ser Asn Asp Ser Asp Asp Val Asp Asp Thr
 145 150 155 160

Asp Asp Ser His Gln Ser Asp Glu Ser His His Ser Asp Glu Ser Asp
 165 170 175

Glu Leu Val Thr Asp Phe Pro Thr Asp Leu Pro Ala Thr Glu Val Phe
 180 185 190

Thr Pro Val Val Pro Thr Val Asp Thr Tyr Asp Gly Arg Gly Asp Ser
 195 200 205

Val Val Met Asp
 210

<210> 261
 <211> 240
 <212> PRT
 <213> Homo sapien
 <400> 261

Met Arg Ile Ala Val Ile Cys Phe Cys Leu Leu Gly Ile Thr Cys Ala
 1 5 10 15

Ile Pro Val Lys Gln Ala Asp Ser Gly Ser Ser Glu Glu Lys Gln Leu
 20 25 30

Tyr Asn Lys Tyr Pro Asp Ala Val Ala Thr Trp Leu Asn Pro Asp Pro
 35 40 45

Ser Gln Lys Gln Asn Leu Leu Ala Pro Gln Thr Leu Pro Ser Lys Ser
 50 55 60

Asn Glu Ser His Asp His Met Asp Asp Met Asp Asp Glu Asp Asp Asp
 65 70 75 80

Asp His Val Asp Ser Gln Asp Ser Ile Asp Ser Asn Asp Ser Asp Asp
 85 90 95

347

Val Asp Asp Thr Asp Asp Ser His Gln Ser Asp Glu Ser His His Ser
 100 105 110

Asp Glu Ser Asp Glu Leu Val Thr Asp Phe Pro Thr Asp Leu Pro Ala
 115 120 125

Thr Glu Val Phe Thr Pro Val Val Pro Thr Val Asp Thr Tyr Asp Gly
 130 135 140

Arg Gly Asp Ser Val Val Met Asp Leu Arg Ser Lys Ser Lys Lys Leu
 145 150 155 160

Arg Arg Pro Glu Tyr Ser Thr Leu Met Leu Gln Thr Arg Thr Ser Ala
 165 170 175

His Asn Gly Lys Arg Gly Val Asp Met Val His Thr Arg Ala Pro Arg
 180 185 190

Gly Gln Thr Asp Thr Ala Pro Arg Ala Ala Gly His Ala Asn Thr Lys
 195 200 205

Ser Ser Ala Asp Gln Pro Asn Arg Asp Arg His Lys Thr Ala Asp Glu
 210 215 220

Lys Glu Pro Glu Asp Glu Thr Gln Arg Ser Ala Thr Glu Gly His Lys
 225 230 235 240

<210> 262
 <211> 198
 <212> PRT
 <213> Homo sapien

<400> 262

Ala Ser Leu Val Thr Ser Ser Asn Tyr Ile Ser Arg Lys Leu Glu Glu
 1 5 10 15

Glu Ala Glu His Ser Ile Val Gly Thr Arg Leu Val Ser Gly Gln Leu
 20 25 30

Gln Pro Ser Gln Pro Asn Ala Asp Gln Gly Lys Leu Thr Thr Met Arg
 35 40 45

Ile Ala Val Ile Cys Phe Cys Leu Leu Gly Ile Thr Cys Ala Ile Pro
 50 55 60

Val Lys Gln Ala Asp Ser Gly Ser Ser Glu Glu Lys Gln Leu Tyr Asn
 65 70 75 80

Lys	Tyr	Pro	Asp	Ala	Val	Ala	Thr	Trp	Leu	Asn	Pro	Asp	Pro	Ser	Gln
			85					90						95	
Lys	Gln	Asn	Leu	Leu	Ala	Pro	Gln	Thr	Leu	Pro	Ser	Lys	Ser	Asn	Glu
			100					105					110		
Ser	His	Asp	His	Met	Asp	Asp	Met	Asp	Asp	Glu	Asp	Asp	Asp	Asp	His
		115					120					125			
Val	Asp	Ser	Gln	Asp	Ser	Ile	Asp	Ser	Asn	Asp	Ser	Asp	Asp	Val	Asp
	130					135					140				
Asp	Thr	Asp	Asp	Ser	His	Gln	Ser	Asp	Glu	Ser	His	His	Ser	Asp	Glu
145					150					155					160
Ser	Asp	Glu	Leu	Val	Thr	Asp	Phe	Pro	Thr	Asp	Leu	Pro	Ala	Thr	Glu
				165					170					175	
Val	Phe	Thr	Pro	Val	Val	Pro	Thr	Val	Asp	Thr	Tyr	Asp	Gly	Arg	Gly
			180					185					190		
Asp	Ser	Val	Val	Met	Asp										
		195													
<210>	263														
<211>	170														
<212>	PRT														
<213>	Homo sapien														
<400>	263														
Met	Asp	Asp	Met	Asp	Asp	Glu	Asp	Asp	Asp	Asp	His	Val	Asp	Ser	Gln
1			5						10					15	
Asp	Ser	Ile	Asp	Ser	Asn	Asp	Ser	Asp	Asp	Val	Asp	Asp	Thr	Asp	Asp
			20					25					30		
Ser	His	Gln	Ser	Asp	Glu	Ser	His	His	Ser	Asp	Glu	Ser	Asp	Glu	Leu
		35					40					45			
Val	Thr	Asp	Phe	Pro	Thr	Asp	Leu	Pro	Ala	Thr	Glu	Val	Phe	Thr	Pro
	50					55					60				
Val	Val	Pro	Thr	Val	Asp	Thr	Tyr	Asp	Gly	Arg	Gly	Asp	Ser	Val	Val
65					70					75					80

349

Met Asp Leu Arg Ser Lys Ser Lys Lys Leu Arg Arg Pro Glu Tyr Ser
85 90 95

Thr Leu Met Leu Gln Thr Arg Thr Ser Ala His Asn Gly Lys Arg Gly
100 105 110

Val Asp Met Val His Thr Arg Ala Pro Arg Gly Gln Thr Asp Thr Ala
115 120 125

Pro Arg Ala Ala Gly His Ala Asn Thr Lys Ser Ser Ala Asp Gln Pro
130 135 140

Asn Arg Asp Arg His Lys Thr Ala Asp Glu Lys Glu Pro Glu Asp Glu
145 150 155 160

Thr Gln Arg Ser Ala Thr Glu Gly His Lys
165 170

<210> 264
<211> 137
<212> PRT
<213> Homo sapien

<400> 264

Ala Ser Pro Val Pro Tyr Gln Leu Asn Arg Leu Ile Leu Glu Val Leu
1 5 10 15

Arg Asp Pro Ser Gln Lys Gln Asn Leu Leu Ala Pro Gln Asn Ala Val
20 25 30

Ser Ser Glu Glu Thr Asn Asp Phe Lys Gln Glu Thr Leu Pro Ser Lys
35 40 45

Ser Asn Glu Ser His Asp His Met Asp Asp Met Asp Asp Glu Asp Asp
50 55 60

Asp Asp His Val Asp Ser Gln Asp Ser Ile Asp Ser Asn Asp Ser Asp
65 70 75 80

Asp Val Asp Asp Thr Asp Asp Ser His Gln Ser Asp Glu Ser His His
85 90 95

Ser Asp Glu Ser Asp Glu Leu Val Thr Asp Phe Pro Thr Asp Leu Pro
100 105 110

Ala Thr Glu Val Phe Thr Pro Val Val Pro Thr Val Asp Thr Tyr Asp
115 120 125

350

Gly Arg Gly Asp Ser Val Val Met Asp
130 135

<210> 265
<211> 156
<212> PRT
<213> Homo sapien

<400> 265

Met Val Thr Pro Pro Ser Pro Pro Lys Ser Pro Pro Cys Met Gln Gly
1 5 10 15

Ile Glu Gly Ser Cys Arg Gly Asp Pro Val Arg Pro Ser Ala Ile Cys
20 25 30

Pro Pro Arg Leu Leu Asp Val Gly Val Gly Met Ser His Pro Pro Ala
35 40 45

Ala Ser His Gly Thr Ser Gly Thr Pro Glu Leu Pro Thr Trp Arg Leu
50 55 60

Leu Val Cys Glu Glu Pro Val Val Pro Val Pro Ala Gly Thr Gly Leu
65 70 75 80

Gly Leu Val Arg Pro Trp Gly Leu Arg Leu Val Phe Leu Cys Leu Asp
85 90 95

Leu His Ile Tyr Cys Ile Ala Gly Arg Asp Pro Gln Ala Cys Pro Pro
100 105 110

Cys Gln Asp Ser Ser Gly Ser Val Trp Val Pro His Ser Ala Pro Ile
115 120 125

Ser Pro Met Ser Pro Ala Gly Ala Gly Ser His Pro Ser Leu Leu Ala
130 135 140

Ala Ala Pro Ser Arg Pro Gly Ile Gly Ser Ala Arg
145 150 155

<210> 266
<211> 195
<212> PRT
<213> Homo sapien

<400> 266

Arg Val Leu Pro Val Arg Pro Cys Pro Ala Gln Cys His Leu Pro Pro

1	5	10	15
Glu Ala Ala Arg Cys Arg Cys Arg His Val Pro Pro Thr Arg Arg Leu	20	25	30
Pro Arg Thr Ser Gly Thr Pro Glu Leu Pro Thr Trp Arg Leu Leu Val	35	40	45
Cys Glu Glu Pro Val Val Pro Val Pro Ala Gly Thr Gly Leu Gly Leu	50	55	60
Val Arg Pro Gly Val Cys Ala Trp Ser Phe Cys Ala Trp Ile Cys Ile	65	70	75
Phe Ile Ala Leu Leu Val Glu Thr Pro Arg Pro Val His Pro Ala Lys	85	90	95
Thr Pro Gln Ala Ala Cys Gly Ser Arg Thr Leu Pro Pro Phe Pro Arg	100	105	110
Cys Pro Leu Arg Ala Arg Ala Ala Thr Gln Ala Cys Trp Leu Arg Pro	115	120	125
Pro Leu Gly Gln Ala Leu Ala Gln Pro Ala Glu Trp Gly Val Val Gly	130	135	140
Gln Ser Pro Arg Ser Trp Ala Pro Ala Gln Ala His Arg Ala Arg Pro	145	150	155
His Pro Ala Ala Pro Arg Thr Ala Thr Arg Gly Val Leu Pro Leu Cys	165	170	175
Pro Ala Pro Gly Thr Asn Ser Met Phe Gly Val Cys Leu Cys Leu Phe	180	185	190
Phe Lys Lys	195		

<210>	267
<211>	376
<212>	PRT
<213>	Homo sapien

<400> 267

Met Ser Ile Leu Lys Ile His Ala Arg Glu Ile Phe Asp Ser Arg Gly
1 5 10 15

352

Asn	Pro	Thr	Val	Glu	Val	Asp	Leu	Phe	Thr	Ser	Lys	Gly	Leu	Phe	Arg
			20					25					30		
Ala	Ala	Val	Pro	Ser	Gly	Ala	Ser	Thr	Gly	Ile	Tyr	Glu	Ala	Leu	Glu
		35					40					45			
Leu	Arg	Asp	Asn	Asp	Lys	Thr	Arg	Tyr	Met	Gly	Lys	Gly	Val	Ser	Lys
	50					55					60				
Ala	Val	Glu	His	Ile	Asn	Lys	Thr	Ile	Ala	Pro	Ala	Leu	Val	Ser	Lys
65					70					75					80
Lys	Leu	Asn	Val	Thr	Glu	Gln	Glu	Lys	Ile	Asp	Lys	Leu	Met	Ile	Glu
				85					90					95	
Met	Asp	Gly	Thr	Glu	Asn	Lys	Ser	Lys	Phe	Gly	Ala	Asn	Ala	Ile	Leu
			100					105					110		
Gly	Val	Ser	Leu	Ala	Val	Cys	Lys	Ala	Gly	Ala	Val	Glu	Lys	Gly	Val
		115					120					125			
Pro	Leu	Tyr	Arg	His	Ile	Ala	Asp	Leu	Ala	Gly	Asn	Ser	Glu	Val	Ile
	130					135					140				
Leu	Pro	Val	Pro	Ala	Phe	Asn	Val	Ile	Asn	Gly	Gly	Ser	His	Ala	Gly
145					150					155					160
Asn	Lys	Leu	Ala	Met	Gln	Glu	Phe	Met	Ile	Leu	Pro	Val	Gly	Ala	Ala
				165					170					175	
Asn	Phe	Arg	Glu	Ala	Met	Arg	Ile	Gly	Ala	Glu	Val	Tyr	His	Asn	Leu
			180					185					190		
Lys	Asn	Val	Ile	Lys	Glu	Lys	Tyr	Gly	Lys	Asp	Ala	Thr	Asn	Val	Gly
		195					200					205			
Asp	Glu	Gly	Gly	Phe	Ala	Pro	Asn	Ile	Leu	Glu	Asn	Lys	Glu	Gly	Leu
	210					215					220				
Glu	Leu	Leu	Lys	Thr	Ala	Ile	Gly	Lys	Ala	Gly	Tyr	Thr	Asp	Lys	Val
225					230					235					240
Val	Ile	Gly	Met	Asp	Val	Ala	Ala	Ser	Glu	Phe	Phe	Arg	Ser	Gly	Lys
				245					250					255	

353

Tyr Asp Leu Asp Phe Lys Ser Pro Asp Asp Pro Ser Arg Tyr Ile Ser
 260 265 270

Pro Asp Gln Leu Ala Asp Leu Tyr Lys Ser Phe Ile Lys Asp Tyr Pro
 275 280 285

Val Val Ser Ile Glu Asp Pro Phe Asp Gln Asp Asp Trp Gly Ala Trp
 290 295 300

Gln Lys Phe Thr Ala Ser Ala Gly Ile Gln Val Val Gly Asp Asp Leu
 305 310 315 320

Thr Val Thr Asn Pro Lys Arg Ile Ala Lys Ala Arg Glu Arg Glu Val
 325 330 335

Leu Gln Leu Pro Pro Ala Gln Ser Gln Pro Asp Trp Leu Arg Asp Arg
 340 345 350

Val Ser Ser Gly Val Gln Ala Gly Pro Gly Gln Trp Leu Gly Arg His
 355 360 365

Gly Val Ser Ser Phe Gly Gly Asp
 370 375

<210> 268
 <211> 404
 <212> PRT
 <213> Homo sapien

<400> 268

Met Ser Ile Leu Lys Ile His Ala Arg Glu Ile Phe Asp Ser Arg Gly
 1 5 10 15

Asn Pro Thr Val Glu Val Asp Leu Phe Thr Ser Lys Gly Leu Phe Arg
 20 25 30

Ala Ala Val Pro Ser Gly Ala Ser Thr Gly Ile Tyr Glu Ala Leu Glu
 35 40 45

Leu Arg Asp Asn Asp Lys Thr Arg Tyr Met Gly Lys Gly Val Ser Lys
 50 55 60

Ala Val Glu His Ile Asn Lys Thr Ile Ala Pro Ala Leu Val Ser Lys
 65 70 75 80

Lys Leu Asn Val Thr Glu Gln Glu Lys Ile Asp Lys Leu Met Ile Glu
 85 90 95

354

Met Asp Gly Thr Glu Asn Lys Ser Lys Phe Gly Ala Asn Ala Ile Leu
 100 105 110

Gly Val Ser Leu Ala Val Cys Lys Ala Gly Ala Val Glu Lys Gly Val
 115 120 125

Pro Leu Tyr Arg His Ile Ala Asp Leu Ala Gly Asn Ser Glu Val Ile
 130 135 140

Leu Pro Val Pro Ala Phe Asn Val Ile Asn Gly Gly Ser His Ala Gly
 145 150 155 160

Asn Lys Leu Ala Met Gln Glu Phe Met Ile Leu Pro Val Gly Ala Ala
 165 170 175

Asn Phe Arg Glu Ala Met Arg Ile Gly Ala Glu Val Tyr His Asn Leu
 180 185 190

Lys Asn Val Ile Lys Glu Lys Tyr Gly Lys Asp Ala Thr Asn Val Gly
 195 200 205

Asp Glu Gly Gly Phe Ala Pro Asn Ile Leu Glu Asn Lys Glu Gly Leu
 210 215 220

Glu Leu Leu Lys Thr Ala Ile Gly Lys Ala Gly Tyr Thr Asp Lys Val
 225 230 235 240

Val Ile Gly Met Asp Val Ala Ala Ser Glu Phe Phe Arg Ser Gly Lys
 245 250 255

Tyr Asp Leu Asp Phe Lys Ser Pro Asp Asp Pro Ser Arg Tyr Ile Ser
 260 265 270

Pro Asp Gln Leu Ala Asp Leu Tyr Lys Ser Phe Ile Lys Asp Tyr Pro
 275 280 285

Val Val Ser Ile Glu Asp Pro Phe Asp Gln Asp Asp Trp Gly Ala Trp
 290 295 300

Gln Lys Phe Thr Ala Ser Ala Gly Ile Gln Val Val Gly Asp Asp Leu
 305 310 315 320

Thr Val Thr Asn Pro Lys Arg Ile Ala Lys Ala Arg Glu Arg Glu Val
 325 330 335

355

Leu Gln Leu Pro Pro Ala Gln Ser Gln Pro Asp Trp Leu Arg Asp Gln
 340 345 350

Leu Ala Asp Leu Tyr Lys Ser Phe Ile Lys Asp Tyr Pro Val Val Ser
 355 360 365

Ile Glu Asp Pro Phe Glu Leu Pro Gly Ala Leu Leu Ala Ala Leu Ala
 370 375 380

Leu Gln Ser Cys Asn Trp Pro Lys Ser Leu Phe Phe Ser Pro His Phe
 385 390 395 400

Pro Pro Ser Val

<210> 269
 <211> 113
 <212> PRT
 <213> Homo sapien

<400> 269

Met Thr Thr Ser Gln Lys His Arg Asp Phe Val Ala Glu Pro Met Gly
 1 5 10 15

Glu Lys Pro Val Gly Ser Leu Ala Gly Ile Gly Glu Val Leu Gly Lys
 20 25 30

Lys Leu Glu Glu Arg Gly Phe Asp Lys Val Trp Gly Gly Cys Val Tyr
 35 40 45

Leu Val Gln Ala Ala Gly Gly Arg Glu Val Ile Pro Ser Ala Gly Gly
 50 55 60

Trp Thr Val Arg Tyr Asn Leu Lys Arg Leu Pro Glu Pro Gly His Leu
 65 70 75 80

Val Glu Arg Arg Gly Gly Gln Asn Pro Arg Cys Phe Leu Gly Leu Cys
 85 90 95

Ala Leu Asn Gly Thr Gly Met Ala Val Leu Leu Leu Ser Leu Thr Glu
 100 105 110

His

<210> 270

356

<211> 30
 <212> PRT
 <213> Homo sapien

<400> 270

Thr Arg Gly Ser Thr Asp Ala Trp Val Asp Pro Arg Val Arg Gln Met
 1 5 10 15

Thr Asp Leu Val Thr Pro Pro Ala Asn Ile Gln Ser Gly Met
 20 25 30

<210> 271
 <211> 66
 <212> PRT
 <213> Homo sapien

<400> 271

Pro Thr Trp Ser Leu Leu Leu Pro Thr Phe Ser Leu Val Cys Glu Ala
 1 5 10 15

Cys Val Lys Gln Glu Leu Leu Glu Leu Gln Gly Gln Gly Ala Ile Ile
 20 25 30

Pro Ala Trp Glu Ser Trp Lys Thr Ser Cys Arg Ser Gln Arg Ser Ile
 35 40 45

Leu Thr Leu Lys Met Gly Arg Met Phe Phe Leu Arg Thr Asn Ser Phe
 50 55 60

Val Phe
 65

<210> 272
 <211> 249
 <212> PRT
 <213> Homo sapien

<400> 272

Met Thr Thr Thr Ile Arg Gln Phe Thr Ser Ser Ser Ser Ile Lys Gly
 1 5 10 15

Ser Ser Gly Leu Gly Gly Gly Ser Ser Arg Thr Ser Cys Arg Leu Ser
 20 25 30

Gly Gly Leu Gly Ala Gly Ser Cys Arg Leu Gly Ser Ala Gly Gly Leu
 35 40 45

Gly Ser Thr Leu Gly Gly Ser Ser Tyr Ser Ser Cys Tyr Ser Phe Gly

357

50

55

60

Ser Gly Gly Gly Tyr Gly Ser Ser Phe Gly Gly Val Asp Gly Leu Leu
 65 70 75 80

Ala Gly Gly Glu Lys Ala Thr Met Gln Asn Leu Asn Asp Arg Leu Ala
 85 90 95

Ser Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu Ala Asn Thr Glu Leu
 100 105 110

Glu Val Lys Ile Arg Asp Trp Tyr Gln Arg Gln Ala Pro Gly Pro Ala
 115 120 125

Arg Asp Tyr Ser Gln Tyr Tyr Arg Thr Ile Glu Glu Leu Gln Asn Lys
 130 135 140

Ile Leu Thr Ala Thr Val Asp Asn Ala Asn Ile Leu Leu Gln Ile Asp
 145 150 155 160

Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Thr Lys Phe Glu Thr Glu
 165 170 175

Gln Gly Leu Arg Leu Ser Val Glu Ala Asp Ile Asn Gly Leu Arg Gln
 180 185 190

Gly Ala Gly Glu Glu Trp Pro Trp Gln Lys Arg Asp Arg Glu Met Arg
 195 200 205

Asn Gly Arg Thr Gln Gly Glu Pro Ala Thr Glu Glu Asn Pro Gly Gly
 210 215 220

Asp Glu Thr Leu Lys Pro Gly Gly Gly Asp Thr Ala Gly Trp Pro Pro
 225 230 235 240

Gln Gly Gly Gly Ala Asn Gln Ile Gly
 245

<210> 273

<211> 247

<212> PRT

<213> Homo sapien

<220>

<221> MISC_FEATURE

<222> (221)..(221)

<223> x=any amino acid

358

<400> 273

Pro Thr Gln Leu Gly Ala Pro Leu Leu Ser Ser Pro Ser Pro Val Cys
 1 5 10 15

Leu Pro Pro Ala Ala Ala Thr Met Thr Thr Thr Ile Arg Gln Phe Thr
 20 25 30

Ser Ser Ser Ser Ile Lys Gly Ser Ser Gly Leu Gly Gly Gly Ser Ser
 35 40 45

Arg Thr Ser Cys Arg Leu Ser Gly Gly Leu Gly Ala Gly Ser Cys Arg
 50 55 60

Leu Gly Ser Ala Gly Gly Leu Gly Ser Thr Leu Gly Gly Ser Ser Tyr
 65 70 75 80

Ser Ser Cys Tyr Ser Phe Gly Ser Gly Gly Gly Tyr Gly Ser Ser Phe
 85 90 95

Gly Gly Val Asp Gly Leu Leu Ala Gly Gly Glu Lys Ala Thr Met Gln
 100 105 110

Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp Lys Val Arg Ala Leu
 115 120 125

Glu Glu Ala Asn Thr Glu Leu Glu Val Lys Ile Arg Asp Trp Tyr Gln
 130 135 140

Arg Gln Ala Pro Gly Pro Ala Arg Asp Tyr Ser Gln Tyr Tyr Arg Thr
 145 150 155 160

Ile Glu Glu Leu Gln Asn Lys Ile Leu Thr Ala Thr Val Asp Asn Ala
 165 170 175

Asn Ile Leu Leu Gln Ile Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe
 180 185 190

Arg Thr Lys Phe Glu Thr Glu Gln Gly Leu Arg Leu Ser Val Glu Ala
 195 200 205

Asp Ile Asn Gly Leu Arg Gln Gly Ala Gly Lys Met Xaa Leu Ala Glu
 210 215 220

Ala Gly Pro Gly Asp Ala Lys Trp Glu Asn Pro Arg Gly Ala Gly Tyr
 225 230 235 240

359

Gly Arg Lys Pro Arg Gly Gly
245

<210> 274
<211> 156
<212> PRT
<213> Homo sapien

<400> 274

Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu
1 5 10 15

Leu Ile Phe Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile Trp Val
20 25 30

Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser
35 40 45

Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly
50 55 60

Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr
65 70 75 80

Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Phe Ile Leu Leu Leu Ile
85 90 95

Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr
100 105 110

Met Val Arg His Trp Asp Gly Gly Arg Glu Glu Asp Trp Ala Lys Pro
115 120 125

Trp Glu Trp Ala Val Ala Cys Glu Trp Pro Pro Ser Val Pro Ala Pro
130 135 140

Lys His Trp Pro Ala Ser Pro Arg Leu Ser Thr Ser
145 150 155

<210> 275
<211> 295
<212> PRT
<213> Homo sapien

<400> 275

Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly Val Val

360

1		5						10					15		
Val	Phe	Ala	Leu	Gly	Phe	Leu	Gly	Cys	Tyr	Gly	Ala	Lys	Thr	Glu	Ser
			20					25					30		
Lys	Cys	Ala	Leu	Val	Thr	Val	Cys	Glu	Thr	Gln	Leu	His	Arg	Leu	Met
		35					40					45			
Thr	Lys	Ser	Pro	Leu	Ala	Leu	Asp	Thr	Arg	Pro	Trp	Asp	Ser	Gln	Thr
	50						55				60				
Leu	Leu	Trp	Thr	Pro	Leu	Gly	Ser	Gly	Phe	Cys	Leu	Thr	Phe	Pro	Gly
65						70				75					80
Gly	Gly	Leu	Gly	Gln	Gly	Gly	His	Glu	Gly	Leu	Ser	Leu	Pro	Lys	Thr
				85					90					95	
Gln	Thr	Pro	Val	Pro	His	Ser	Phe	Phe	Phe	Ile	Leu	Leu	Leu	Ile	Phe
			100					105						110	
Ile	Ala	Glu	Val	Ala	Ala	Ala	Val	Val	Ala	Leu	Val	Tyr	Thr	Thr	Met
		115					120					125			
Val	Arg	His	Trp	Asp	Gly	Gly	Arg	Glu	Glu	Asp	Trp	Ala	Lys	Pro	Trp
	130					135					140				
Glu	Trp	Ala	Val	Ala	Cys	Glu	Trp	Pro	Pro	Ser	Val	Pro	Ala	Pro	Lys
145					150					155					160
His	Trp	Pro	Ala	Phe	Thr	Gln	Ala	Glu	His	Phe	Leu	Thr	Leu	Leu	Val
				165					170					175	
Val	Pro	Ala	Ile	Lys	Lys	Asp	Tyr	Gly	Ser	Gln	Glu	Asp	Phe	Thr	Gln
			180					185					190		
Val	Trp	Asn	Thr	Thr	Met	Lys	Gly	Leu	Lys	Cys	Cys	Gly	Phe	Thr	Asn
		195					200					205			
Tyr	Thr	Asp	Phe	Glu	Asp	Ser	Pro	Tyr	Phe	Lys	Glu	Asn	Ser	Ala	Phe
	210					215					220				
Pro	Pro	Phe	Cys	Cys	Asn	Asp	Asn	Val	Thr	Asn	Thr	Ala	Asn	Glu	Thr
225					230					235					240
Cys	Thr	Lys	Gln	Lys	Ala	His	Asp	Gln	Lys	Val	Glu	Gly	Cys	Phe	Asn
				245					250					255	

361

Gln Leu Leu Tyr Asp Ile Arg Thr Asn Ala Val Thr Val Gly Gly Val
 260 265 270

Ala Ala Gly Ile Gly Gly Leu Glu Leu Ala Ala Met Ile Val Ser Met
 275 280 285

Tyr Leu Tyr Cys Asn Leu Gln
 290 295

<210> 276
 <211> 207
 <212> PRT
 <213> Homo sapien

<400> 276

Pro Leu Ser Pro Gln Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile
 1 5 10 15

Trp Val Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu
 20 25 30

Ser Ser Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala
 35 40 45

Ala Gly Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala
 50 55 60

Lys Thr Glu Ser Lys Cys Ala Leu Val Thr Val Cys Glu Thr Gln Leu
 65 70 75 80

His Arg Leu Met Thr Lys Ser Pro Leu Ala Leu Asp Thr Arg Pro Trp
 85 90 95

Asp Ser Gln Thr Leu Leu Trp Thr Pro Leu Gly Ser Gly Phe Cys Leu
 100 105 110

Thr Phe Pro Gly Gly Gly Leu Gly Gln Gly Gly His Glu Gly Leu Ser
 115 120 125

Leu Pro Lys Thr Gln Thr Pro Val Pro His Ser Phe Phe Phe Ile Leu
 130 135 140

Leu Leu Ile Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val
 145 150 155 160

362

Tyr Thr Thr Met Val Arg His Trp Asp Gly Gly Arg Glu Glu Asp Trp
 165 170 175

Ala Lys Pro Trp Glu Trp Ala Val Ala Cys Glu Trp Pro Pro Ser Val
 180 185 190

Pro Ala Pro Lys His Trp Pro Ala Ser Pro Arg Leu Ser Thr Ser
 195 200 205

<210> 277
 <211> 110
 <212> PRT
 <213> Homo sapien

<400> 277

Gly Arg Leu Leu Leu Leu Asn Ser Arg Pro Arg Arg Leu Lys Gly Leu
 1 5 10 15

Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr
 20 25 30

Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val
 35 40 45

Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala His Asp Gln
 50 55 60

Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile Arg Thr Asn
 65 70 75 80

Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly Leu Glu Leu
 85 90 95

Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu Gln
 100 105 110

<210> 278
 <211> 110
 <212> PRT
 <213> Homo sapien

<220>
 <221> MISC_FEATURE
 <222> (14)..(14)
 <223> x=any amino acid

<400> 278

Gly Arg Leu Leu Leu Leu Asn Ser Arg Pro Arg Arg Leu Xaa Gly Leu

363

1 5 10 15
 Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr
 20 25 30
 Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val
 35 40 45
 Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala His Asp Gln
 50 55 60
 Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile Arg Thr Asn
 65 70 75 80
 Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly Leu Glu Leu
 85 90 95
 Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu Gln
 100 105 110

 <210> 279
 <211> 156
 <212> PRT
 <213> Homo sapien

 <400> 279
 Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu
 1 5 10 15
 Leu Ile Phe Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile Trp Val
 20 25 30
 Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser
 35 40 45
 Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly
 50 55 60
 Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr
 65 70 75 80
 Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Phe Ile Leu Leu Leu Ile
 85 90 95
 Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr
 100 105 110

364

Met Val Arg His Trp Asp Gly Gly Arg Glu Glu Asp Trp Ala Lys Pro
 115 120 125

Trp Glu Trp Ala Val Ala Cys Glu Trp Pro Pro Ser Val Pro Ala Pro
 130 135 140

Lys His Trp Pro Ala Ser Pro Arg Leu Ser Thr Ser
 145 150 155

<210> 280
 <211> 171
 <212> PRT
 <213> Homo sapien

<400> 280

Met Leu Glu Arg Arg Ile Val Met Asp Ala Trp Ser Arg Pro Arg Tyr
 1 5 10 15

Cys Phe Gly Leu Val Tyr Tyr Val Leu Val Gly Leu Thr Val Leu Ser
 20 25 30

Gln Val Pro Met Asp Gly Arg Asn Ala Tyr Ile Thr Gly Lys Asn Leu
 35 40 45

Leu Met Gln Ala Arg Trp Phe His Ile Leu Gly Met Met Met Phe Ile
 50 55 60

Trp Ser Ser Ala His Gln Tyr Lys Cys His Val Ile Leu Gly Asn Leu
 65 70 75 80

Arg Lys Asn Lys Ala Gly Val Val Ile His Cys Asn His Arg Ile Pro
 85 90 95

Phe Gly Asp Trp Phe Glu Tyr Val Ser Ser Pro Asn Tyr Leu Ala Glu
 100 105 110

Leu Met Ile Tyr Val Ser Met Ala Val Thr Phe Gly Phe His Asn Leu
 115 120 125

Thr Trp Trp Leu Val Val Thr Asn Val Phe Phe Asn Gln Ala Leu Ser
 130 135 140

Ala Phe Leu Ser His Gln Phe Tyr Lys Ser Lys Phe Val Ser Tyr Pro
 145 150 155 160

Lys His Arg Lys Ala Phe Leu Pro Phe Leu Phe

365

165

170

<210> 281
 <211> 101
 <212> PRT
 <213> Homo sapien

<400> 281

Met Ile Thr His Gly Ser Asp Thr Gly Lys Lys Arg Ile Arg Arg Gly
 1 5 10 15

Gly Asn Ile Leu Val Ala Lys Glu His Pro Arg Thr Ile Arg Ala Val
 20 25 30

Gly Ala Pro Asn Asn Val Val Gly Asp Thr Asp His Pro His Arg Arg
 35 40 45

Asp Tyr Ile Arg Ala Pro Leu Glu Pro Arg Thr Ile Met Gln Ile Leu
 50 55 60

Arg Arg Gly Tyr Cys Gly Arg Leu Asn Arg Gln Ala Ala Ser Asn Gly
 65 70 75 80

Asp Pro Ala Gly Arg Arg Leu Gly Asp Ser Gly Lys Arg Arg Leu Ser
 85 90 95

His Leu Phe Ser Arg
 100

<210> 282
 <211> 120
 <212> PRT
 <213> Homo sapien

<400> 282

Ile Lys Ser Glu Thr Ser Thr Thr Ser Leu Lys Trp Ala Glu Ser Leu
 1 5 10 15

Leu Leu Thr Leu Asp Leu Glu Lys Pro Val Ser Leu Leu Ser Val
 20 25 30

Thr Asn Leu Tyr Ser Lys Asn Ser Ala Gln Phe Ser Thr Ile Leu Gln
 35 40 45

Thr Leu Ser Phe Pro Ala Thr Phe Thr Pro Ser Pro Ser Ile Pro Leu
 50 55 60

366

Ser Ser Ala Tyr Phe Phe Phe Phe Ser Asp Arg Val Ser Leu Cys Arg
65 70 75 80

Pro Gly Arg Ser Ala Val Ala Gln Ser Trp Ala His Cys Ser Leu Asn
85 90 95

Leu Pro Gly Ser Ser Asp Ser Pro Ala Ser Ala Pro Gln Val Ala Gly
100 105 110

Thr Thr Ser Ala His His His Ala
115 120

<210> 283
<211> 386
<212> PRT
<213> Homo sapien

<400> 283

Asn Leu Asp Trp Ala Gly Pro Leu Leu Cys His Leu Lys Gly Leu Gly
1 5 10 15

His Ala Ser Leu Ser Ser Trp Glu Thr Leu Thr Gly Ser Leu Gly Ser
20 25 30

Gln Ser Ile Lys Trp Arg Arg Phe Leu Pro Ser Glu Pro Thr Leu Leu
35 40 45

Gly Phe Ser Gly Gln Ile Ser Pro Gly Pro Gly Ser Ala Arg Arg Gly
50 55 60

Thr Gly Pro Pro Ser Ala Ser Asp Leu Arg Ala Pro Gly His Ser Pro
65 70 75 80

Gly His Ser Pro Ala His Leu Pro Arg Pro Arg Pro Pro Arg Ala Pro
85 90 95

Ala Gly Ser Ala Pro Ala Ile Cys Pro Thr Gly Arg Ala Pro Ser Trp
100 105 110

Pro Ala Pro Ala Arg His Asp Arg Cys Pro Pro Leu Ala Phe Leu Thr
115 120 125

Gln Gly Leu Arg Trp Leu Arg Ser Pro Gly Ser Cys Arg Gln Gly Gln
130 135 140

Glu Gly Ser Gly Thr Trp Lys Met Arg Pro Leu Ala Gly Gly Leu Leu
145 150 155 160

367

Lys Val Val Phe Val Val Phe Ala Ser Leu Cys Ala Trp Tyr Ser Gly
 165 170 175

Tyr Leu Leu Ala Glu Leu Ile Pro Asp Ala Pro Leu Ser Ser Ala Ala
 180 185 190

Tyr Ser Ile Arg Ser Ile Gly Glu Arg Pro Val Leu Lys Ala Pro Val
 195 200 205

Pro Lys Arg Gln Lys Cys Asp His Trp Thr Pro Cys Pro Ser Asp Thr
 210 215 220

Tyr Ala Tyr Arg Leu Leu Ser Gly Gly Gly Arg Ser Lys Tyr Ala Lys
 225 230 235 240

Ile Cys Phe Glu Asp Asn Leu Leu Met Gly Glu Gln Leu Gly Asn Val
 245 250 255

Ala Arg Gly Ile Asn Ile Ala Ile Val Asn Tyr Val Thr Gly Asn Val
 260 265 270

Thr Ala Thr Arg Cys Phe Asp Met Tyr Glu Gly Asp Asn Ser Gly Pro
 275 280 285

Met Thr Lys Phe Ile Gln Ser Ala Ala Pro Lys Ser Leu Leu Phe Met
 290 295 300

Val Thr Tyr Asp Asp Gly Ser Thr Arg Leu Asn Asn Asp Ala Lys Asn
 305 310 315 320

Ala Ile Glu Ala Leu Gly Ser Lys Glu Ile Arg Asn Met Lys Phe Arg
 325 330 335

Ser Ser Trp Val Phe Ile Ala Ala Lys Gly Leu Glu Leu Pro Ser Glu
 340 345 350

Ile Gln Arg Glu Lys Ile Asn His Ser Asp Ala Lys Asn Asn Arg Tyr
 355 360 365

Ser Gly Trp Pro Ala Glu Ile Gln Ile Glu Gly Cys Ile Pro Lys Glu
 370 375 380

Arg Ser
 385

368

<210> 284
 <211> 296
 <212> PRT
 <213> Homo sapien

<400> 284

Asn Leu Asp Trp Ala Gly Pro Leu Leu Cys His Leu Lys Gly Leu Gly
 1 5 10 15

His Ala Ser Leu Ser Ser Trp Glu Thr Leu Thr Gly Ser Leu Gly Ser
 20 25 30

Gln Ser Ile Lys Trp Arg Arg Phe Leu Pro Ser Glu Pro Thr Leu Leu
 35 40 45

Gly Phe Ser Gly Gln Ile Ser Pro Gly Pro Gly Ser Ala Arg Arg Gly
 50 55 60

Thr Gly Pro Pro Ser Ala Ser Asp Leu Arg Ala Pro Gly His Ser Pro
 65 70 75 80

Gly His Ser Pro Ala His Leu Pro Arg Pro Arg Pro Pro Arg Ala Pro
 85 90 95

Ala Gly Ser Ala Pro Ala Ile Cys Pro Thr Gly Arg Ala Pro Ser Trp
 100 105 110

Pro Ala Pro Ala Arg His Asp Arg Cys Pro Pro Leu Ala Phe Leu Thr
 115 120 125

Gln Gly Leu Arg Trp Leu Arg Ser Pro Gly Ser Cys Arg Gln Gly Gln
 130 135 140

Glu Gly Ser Gly Thr Trp Lys Met Arg Pro Leu Ala Gly Gly Leu Leu
 145 150 155 160

Lys Val Val Phe Val Val Phe Ala Ser Leu Cys Ala Trp Tyr Ser Gly
 165 170 175

Tyr Leu Leu Ala Glu Leu Ile Pro Asp Ala Pro Leu Ser Ser Ala Ala
 180 185 190

Tyr Ser Ile Arg Ser Ile Gly Glu Arg Pro Val Leu Lys Ala Pro Val
 195 200 205

Pro Lys Arg Gln Lys Cys Asp His Trp Thr Pro Cys Pro Ser Asp Thr

369

210

215

220

Tyr Ala Tyr Arg Leu Leu Ser Gly Gly Gly Arg Ser Lys Tyr Ala Lys
 225 230 235 240

Ile Cys Phe Glu Asp Asn Leu Leu Met Gly Glu Gln Leu Gly Asn Val
 245 250 255

Ala Arg Gly Ile Asn Ile Ala Ile Val Asn Tyr Val Thr Gly Asn Val
 260 265 270

Thr Ala Thr Arg Cys Phe Asp Met Tyr Glu Gly Val Phe Leu Asp Gly
 275 280 285

Leu Ser Phe Leu Gly Thr Asp Ser
 290 295

<210> 285
 <211> 338
 <212> PRT
 <213> Homo sapien

<400> 285

Asn Leu Asp Trp Ala Gly Pro Leu Leu Cys His Leu Lys Gly Leu Gly
 1 5 10 15

His Ala Ser Leu Ser Ser Trp Glu Thr Leu Thr Gly Ser Leu Gly Ser
 20 25 30

Gln Ser Ile Lys Trp Arg Arg Phe Leu Pro Ser Glu Pro Thr Leu Leu
 35 40 45

Gly Phe Ser Gly Gln Ile Ser Pro Gly Pro Gly Ser Ala Arg Arg Gly
 50 55 60

Thr Gly Pro Pro Ser Ala Ser Asp Leu Arg Ala Pro Gly His Ser Pro
 65 70 75 80

Gly His Ser Pro Ala His Leu Pro Arg Pro Arg Pro Pro Arg Ala Pro
 85 90 95

Ala Gly Ser Ala Pro Ala Ile Cys Pro Thr Gly Arg Ala Pro Ser Trp
 100 105 110

Pro Ala Pro Ala Arg His Asp Arg Cys Pro Pro Leu Ala Phe Leu Thr
 115 120 125

370

Gln Gly Leu Arg Trp Leu Arg Ser Pro Gly Ser Cys Arg Gln Gly Gln
 130 135 140

Glu Gly Ser Gly Thr Trp Lys Met Arg Pro Leu Ala Gly Ala Pro Val
 145 150 155 160

Pro Lys Arg Gln Lys Cys Asp His Trp Thr Pro Cys Pro Ser Asp Thr
 165 170 175

Tyr Ala Tyr Arg Leu Leu Ser Gly Gly Gly Arg Ser Lys Tyr Ala Lys
 180 185 190

Ile Cys Phe Glu Asp Asn Leu Leu Met Gly Glu Gln Leu Gly Asn Val
 195 200 205

Ala Arg Gly Ile Asn Ile Ala Ile Val Asn Tyr Val Thr Gly Asn Val
 210 215 220

Thr Ala Thr Arg Cys Phe Asp Met Tyr Glu Gly Asp Asn Ser Gly Pro
 225 230 235 240

Met Thr Lys Phe Ile Gln Ser Ala Ala Pro Lys Ser Leu Leu Phe Met
 245 250 255

Val Thr Tyr Asp Asp Gly Ser Thr Arg Leu Asn Asn Asp Ala Lys Asn
 260 265 270

Ala Ile Glu Ala Leu Gly Ser Lys Glu Ile Arg Asn Met Lys Phe Arg
 275 280 285

Ser Ser Trp Val Phe Ile Ala Ala Lys Gly Leu Glu Leu Pro Ser Glu
 290 295 300

Ile Gln Arg Glu Lys Ile Asn His Ser Asp Ala Lys Asn Asn Arg Tyr
 305 310 315 320

Ser Gly Trp Pro Ala Glu Ile Gln Ile Glu Gly Cys Ile Pro Lys Glu
 325 330 335

Arg Ser

<210> 286
 <211> 173
 <212> PRT
 <213> Homo sapien

371

<400> 286

Met Arg Pro Leu Ala Gly Gly Leu Leu Lys Val Val Phe Val Val Phe
1 5 10 15
Ala Ser Leu Cys Ala Trp Tyr Ser Gly Tyr Leu Leu Ala Glu Leu Ile
20 25 30
Pro Asp Ala Pro Leu Ser Ser Ala Ala Tyr Ser Ile Arg Ser Ile Gly
35 40 45
Glu Arg Pro Val Leu Lys Ala Pro Val Pro Lys Arg Gln Lys Cys Asp
50 55 60
His Trp Thr Pro Cys Pro Ser Asp Thr Tyr Ala Tyr Arg Leu Leu Ser
65 70 75 80
Gly Gly Gly Arg Ser Lys Tyr Ala Lys Ile Cys Phe Glu Asp Asn Leu
85 90 95
Leu Met Gly Glu Gln Leu Gly Asn Val Ala Arg Gly Ile Asn Ile Ala
100 105 110
Ile Val Asn Tyr Val Thr Gly Asn Val Thr Ala Thr Arg Cys Phe Asp
115 120 125
Met Tyr Glu Gly Gly Lys Lys Ile Phe Ser Val Lys Ile Gln Met Asn
130 135 140
Phe Lys Gln Lys Ile Lys Ile Lys Lys His Lys Glu Lys Cys Gln Pro
145 150 155 160
Phe Leu Phe Cys Leu Leu Glu Lys Arg Gln Gln Leu Ser
165 170

<210> 287

<211> 133

<212> PRT

<213> Homo sapien

<220>

<221> MISC_FEATURE

<222> (62)..(62)

<223> x=any amino acid

<400> 287

Met Asn His Thr Val Gln Thr Phe Phe Ser Pro Val Asn Ser Gly Gln

372																
1	5					10					15					
Pro	Leu	Asn	Tyr	Glu	Met	Leu	Lys	Glu	Glu	His	Glu	Val	Ala	Val	Pro	
		20						25					30			
Gly	Val	Pro	His	Asn	Pro	Ala	Leu	Pro	Thr	Ser	Thr	Val	Ile	His	Ile	
		35					40					45				
Arg	Ser	Glu	Thr	Ser	Tyr	Leu	Asp	His	Arg	Ala	Met	Thr	Xaa	Asn	Phe	
	50					55					60					
Cys	Arg	Phe	Lys	Tyr	Pro	His	Asn	Gln	Gly	Asn	Ile	Thr	Gly	Ala	Tyr	
65					70					75					80	
Ser	Val	Lys	Ser	Arg	Asp	Arg	Lys	Met	Val	Gly	Asp	Val	Thr	Gly	Ala	
				85					90					95		
Gln	Ala	Tyr	Ala	Ser	Thr	Ala	Lys	Cys	Leu	Asn	Ile	Trp	Ala	Leu	Ile	
			100					105					110			
Leu	Gly	Ile	Leu	Met	Thr	Ile	Leu	Leu	Ile	Val	Ile	Pro	Val	Leu	Ile	
		115					120					125				
Phe	Gln	Ala	Tyr	Gly												
		130														
<210>	288															
<211>	332															
<212>	PRT															
<213>	Homo sapien															
<400>	288															
Met	Ala	Asn	Arg	Asp	Thr	Gly	Glu	Asn	Leu	Thr	Arg	Glu	Asn	Leu	Ser	
1				5					10					15		
Ser	Pro	Ala	Leu	Leu	Leu	Cys	Ala	Cys	Leu	Leu	Pro	Pro	Leu	Thr	Met	
			20					25					30			
Thr	Thr	Ser	Ile	Arg	Gln	Phe	Thr	Ser	Ser	Ser	Ser	Ile	Lys	Gly	Ser	
		35					40					45				
Ser	Gly	Leu	Gly	Gly	Gly	Ser	Ser	Arg	Thr	Ser	Cys	Arg	Leu	Ser	Gly	
	50					55					60					
Gly	Leu	Gly	Ala	Gly	Ser	Cys	Arg	Leu	Gly	Ser	Ala	Gly	Gly	Leu	Gly	
65					70					75						80

Ser	Thr	Leu	Gly	Gly	Ser	Ser	Tyr	Ser	Ser	Cys	Tyr	Ser	Phe	Gly	Ser	
				85					90					95		
Gly	Gly	Gly	Tyr	Gly	Ser	Ser	Phe	Gly	Gly	Val	Asp	Gly	Leu	Leu	Ala	
			100					105					110			
Gly	Gly	Glu	Lys	Ala	Thr	Met	Gln	Asn	Leu	Asn	Asp	Arg	Leu	Ala	Ser	
		115					120					125				
Tyr	Leu	Asp	Lys	Val	Arg	Ala	Leu	Glu	Glu	Ala	Asn	Thr	Glu	Leu	Glu	
		130					135					140				
Val	Lys	Ile	Arg	Asp	Trp	Tyr	Gln	Arg	Gln	Ala	Pro	Gly	Pro	Ala	Arg	
		145					150					155				
Asp	Tyr	Ser	Gln	Tyr	Tyr	Arg	Thr	Ile	Glu	Glu	Leu	Gln	Asn	Lys	Ile	
			165					170					175			
Leu	Thr	Ala	Thr	Val	Asp	Asn	Ala	Asn	Ile	Leu	Leu	Gln	Ile	Asp	Asn	
			180					185					190			
Ala	Arg	Leu	Ala	Ala	Asp	Asp	Phe	Arg	Thr	Lys	Phe	Glu	Thr	Glu	Gln	
		195					200					205				
Ala	Leu	Arg	Leu	Ser	Val	Glu	Ala	Asp	Ile	Asn	Gly	Leu	Arg	Arg	Val	
		210					215					220				
Leu	Asp	Glu	Leu	Thr	Leu	Ala	Arg	Ala	Asp	Leu	Glu	Met	Gln	Ile	Glu	
		225					230					235				
Asn	Leu	Lys	Glu	Glu	Leu	Ala	Tyr	Leu	Lys	Lys	Asn	His	Glu	Glu	Glu	
			245					250					255			
Met	Asn	Ala	Leu	Glu	Ala	Ser	Gly	Gly	Glu	Thr	Thr	Arg	Arg	Met	Leu	
			260					265					270			
Leu	Ala	Gln	Gly	Asp	Glu	Arg	Ser	Gln	Lys	Gly	Arg	Leu	Lys	Lys	Gly	
		275					280					285				
Lys	Thr	Thr	Glu	Arg	Met	Ala	Gln	Gln	Arg	Lys	Arg	Arg	Thr	Thr	Asp	
		290					295					300				
Gly	Lys	Lys	Asp	Arg	Asn	Ala	Arg	Gly	Glu	Thr	Gln	Asn	Ser	Gly	Lys	
		305					310					315				

374

Glu Pro Ser Gly Leu Phe Cys Tyr Leu Glu Gln Leu
 325 330

<210> 289
 <211> 262
 <212> PRT
 <213> Homo sapien

<220>
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 <222> (253)..(253)
 <223> x=any amino acid

<220>
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 <222> (260)..(260)
 <223> x=any amino acid

<400> 289

Gln Arg Tyr Arg Arg Lys Phe Asn Thr Arg Glu Ser Leu Leu Ser Ser
 1 5 10 15

Pro Ser Pro Val Cys Leu Pro Pro Ala Ala Ala Thr Met Thr Thr Ser
 20 25 30

Ile Arg Gln Phe Thr Ser Ser Ser Ser Ile Lys Gly Ser Ser Gly Leu
 35 40 45

Gly Gly Gly Ser Ser Arg Thr Ser Cys Arg Leu Ser Gly Gly Leu Gly
 50 55 60

Ala Gly Ser Cys Arg Leu Gly Ser Ala Gly Gly Leu Gly Ser Thr Leu
 65 70 75 80

Gly Gly Ser Ser Tyr Ser Ser Cys Tyr Ser Phe Gly Ser Gly Gly Gly
 85 90 95

Tyr Gly Ser Ser Phe Gly Gly Val Asp Gly Leu Leu Ala Gly Gly Glu
 100 105 110

Lys Ala Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp
 115 120 125

Lys Val Arg Ala Leu Glu Glu Ala Asn Thr Glu Leu Glu Val Lys Ile
 130 135 140

Arg Asp Trp Tyr Gln Arg Gln Ala Pro Gly Pro Ala Arg Asp Tyr Ser
 145 150 155 160

375

Gln Tyr Tyr Arg Thr Ile Glu Glu Leu Gln Asn Lys Ile Leu Thr Ala
 165 170 175

Thr Val Asp Asn Ala Asn Ile Leu Leu Gln Ile Asp Asn Ala Arg Leu
 180 185 190

Ala Ala Asp Asp Phe Arg Thr Lys Phe Glu Thr Glu Gln Ala Leu Arg
 195 200 205

Leu Ser Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Val Leu Asp Glu
 210 215 220

Leu Thr Leu Ala Arg Ala Asp Leu Glu Met Gln Ile Glu Lys Pro Gln
 225 230 235 240

Gly Gly Ala Gly Leu Pro Glu Glu Glu Pro Arg Gly Xaa Asp Glu Arg
 245 250 255

Pro Gly Gly Xaa Trp Trp
 260

<210> 290
 <211> 190
 <212> PRT
 <213> Homo sapien

<400> 290

Met Tyr Leu Leu His Asn Ser Gln Glu Met Leu Arg Ser Met Val Leu
 1 5 10 15

Asn Trp His Leu Leu Gly Leu Ala Glu Tyr Arg Glu Lys Val Glu Thr
 20 25 30

Glu Leu Gln Gly Val Cys Asp Thr Val Leu Gly Leu Leu Asp Ser His
 35 40 45

Leu Ile Lys Glu Ala Gly Asp Ala Glu Ser Arg Val Phe Tyr Leu Lys
 50 55 60

Met Lys Gly Asp Tyr Tyr Arg Tyr Leu Ala Glu Val Ala Thr Gly Asp
 65 70 75 80

Asp Lys Lys Arg Ile Ile Asp Ser Ala Arg Ser Ala Tyr Gln Glu Ala
 85 90 95

376

Met Asp Ile Ser Lys Lys Glu Met Pro Pro Thr Asn Pro Ile Arg Leu
 100 105 110

Gly Leu Ala Leu Asn Phe Ser Val Phe His Tyr Glu Ile Ala Asn Ser
 115 120 125

Pro Glu Glu Ala Ile Ser Leu Ala Lys Thr Thr Phe Asp Glu Ala Met
 130 135 140

Ala Asp Leu His Thr Leu Ser Glu Asp Ser Tyr Lys Asp Ser Thr Leu
 145 150 155 160

Ile Met Gln Leu Leu Arg Asp Asn Leu Thr Leu Trp Thr Ala Asp Asn
 165 170 175

Ala Gly Glu Glu Gly Gly Glu Ala Pro Gln Glu Pro Gln Ser
 180 185 190

<210> 291
 <211> 174
 <212> PRT
 <213> Homo sapien

<400> 291

Ile Gly Ile Cys Trp Val Trp Pro Glu Tyr Arg Glu Lys Val Glu Thr
 1 5 10 15

Glu Leu Gln Gly Val Cys Asp Thr Val Leu Gly Leu Leu Asp Ser His
 20 25 30

Leu Ile Lys Glu Ala Gly Asp Ala Glu Ser Arg Val Phe Tyr Leu Lys
 35 40 45

Met Lys Gly Asp Tyr Tyr Arg Tyr Leu Ala Glu Val Ala Thr Gly Asp
 50 55 60

Asp Lys Lys Arg Ile Ile Asp Ser Ala Arg Ser Ala Tyr Gln Glu Ala
 65 70 75 80

Met Asp Ile Ser Lys Lys Glu Met Pro Pro Thr Asn Pro Ile Arg Leu
 85 90 95

Gly Leu Ala Leu Asn Phe Ser Val Phe His Tyr Glu Ile Ala Asn Ser
 100 105 110

Pro Glu Glu Ala Ile Ser Leu Ala Lys Thr Thr Phe Asp Glu Ala Met
 115 120 125

377

Ala Asp Leu His Thr Leu Ser Glu Asp Ser Tyr Lys Asp Ser Thr Leu
 130 135 140

Ile Met Gln Leu Leu Arg Asp Asn Leu Thr Leu Trp Thr Ala Asp Asn
 145 150 155 160

Ala Gly Glu Glu Gly Gly Glu Ala Pro Gln Glu Pro Gln Ser
 165 170

<210> 292
 <211> 241
 <212> PRT
 <213> Homo sapien

<400> 292

Arg Leu Pro Leu Leu His His Pro Cys Leu Thr Ile Ile Phe Pro Pro
 1 5 10 15

Lys Ala Val Thr Ser Ser Thr Pro Ile Pro Arg Ala Leu Gly Thr Gln
 20 25 30

Pro Leu Ala Lys Ser Pro Gln Ala Gly Ser Gly Leu Asn Pro Ala Val
 35 40 45

Ser Thr Pro Arg Lys His Thr Asp Val Phe Asn Trp Lys Val Arg Ala
 50 55 60

Gly Ser Asp Lys Leu Gly Ser Phe Pro Ser Leu Ala Val Ala Lys Ile
 65 70 75 80

Ile Ile Ile Glu Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp Ile Ala
 85 90 95

Leu Met Lys Leu Gln Phe Pro Leu Thr Phe Ser Gly Thr Val Arg Pro
 100 105 110

Ile Cys Leu Pro Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr Pro Leu
 115 120 125

Trp Ile Ile Gly Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys Met Ser
 130 135 140

Asp Ile Leu Leu Gln Ala Ser Val Gln Val Ile Asp Ser Thr Arg Cys
 145 150 155 160

378

Asn Ala Asp Asp Ala Tyr Gln Gly Glu Val Thr Glu Lys Met Met Cys
 165 170 175

Ala Gly Ile Pro Glu Gly Gly Val Asp Thr Cys Gln Gly Asp Ser Gly
 180 185 190

Gly Pro Leu Met Tyr Gln Ser Asp Gln Trp His Val Val Gly Ile Val
 195 200 205

Ser Trp Gly Tyr Gly Cys Gly Gly Pro Ser Thr Pro Gly Val Tyr Thr
 210 215 220

Lys Val Ser Ala Tyr Leu Asn Trp Ile Tyr Asn Val Trp Lys Ala Glu
 225 230 235 240

Leu

<210> 293
 <211> 222
 <212> PRT
 <213> Homo sapien

<400> 293

His Pro Ala Pro Arg Ser Leu Gly Pro Trp Gly Pro Ser Leu Trp Gln
 1 5 10 15

Ser Leu Leu Arg Leu Gly Ser Gly Leu Asn Pro Ala Val Ser Thr Pro
 20 25 30

Arg Lys His Thr Asp Val Phe Asn Trp Lys Val Arg Ala Gly Ser Asp
 35 40 45

Lys Leu Gly Ser Phe Pro Ser Leu Ala Val Ala Lys Ile Ile Ile Ile
 50 55 60

Glu Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp Ile Ala Leu Met Lys
 65 70 75 80

Leu Gln Phe Pro Leu Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu
 85 90 95

Pro Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile
 100 105 110

Gly Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu
 115 120 125

379

Leu Gln Ala Ser Val Gln Val Ile Asp Ser Thr Arg Cys Asn Ala Asp
 130 135 140

Asp Ala Tyr Gln Gly Glu Val Thr Glu Lys Met Met Cys Ala Gly Ile
 145 150 155 160

Pro Glu Gly Gly Val Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro Leu
 165 170 175

Met Tyr Gln Ser Asp Gln Trp His Val Val Gly Ile Val Ser Trp Gly
 180 185 190

Tyr Gly Cys Gly Gly Pro Ser Thr Pro Gly Val Tyr Thr Lys Val Ser
 195 200 205

Ala Tyr Leu Asn Trp Ile Tyr Asn Val Trp Lys Ala Glu Leu
 210 215 220

<210> 294
 <211> 218
 <212> PRT
 <213> Homo sapien

<220>
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 <223> x=any amino acid

<400> 294

Met Ala Val Ala Ser Ala Ala Ala Ala Leu Val Val Ala Leu Gly
 1 5 10 15

Glu Asp Met Val Val Ala Leu Val Leu Ala Ser Val Val Ala Trp Val
 20 25 30

Leu Ala Leu Gly Val Asp Gly Leu Leu Ala Gly Gly Glu Lys Ala Thr
 35 40 45

Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp Lys Val Arg
 50 55 60

Ala Leu Glu Glu Ala Asn Thr Glu Leu Glu Val Lys Ile Arg Asp Trp
 65 70 75 80

Tyr Gln Arg Gln Ala Pro Gly Pro Ala Arg Asp Tyr Ser Gln Tyr Tyr
 85 90 95

380

Arg Thr Ile Glu Glu Leu Gln Asn Lys Ile Leu Thr Ala Thr Val Asp
 100 105 110

Asn Ala Asn Ile Leu Leu Gln Ile Asp Asn Ala Arg Leu Ala Ala Asp
 115 120 125

Asp Phe Arg Thr Lys Phe Glu Thr Glu Gln Ala Leu Arg Leu Ser Val
 130 135 140

Glu Ala Asp Ile Asn Gly Leu Arg Arg Val Leu Asp Glu Leu Thr Leu
 145 150 155 160

Ala Arg Ala Asp Leu Glu Met Gln Ile Glu Asn Leu Lys Gly Gly Ala
 165 170 175

Gly Leu Thr Glu Glu Glu Pro Arg Gly Gly Asp Glu Arg Pro Gly Lys
 180 185 190

Gln Val Gly Gly Glu Ile Asn Val Glu Lys Asp Ala Ala Pro Gly Leu
 195 200 205

Asp Xaa Ser Arg Ile Leu Asn Glu Met Arg
 210 215

<210> 295
 <211> 303
 <212> PRT
 <213> Homo sapien

<220>
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 <222> (296)..(296)
 <223> x=any amino acid

<400> 295

Ala Pro Phe Leu Leu Ser Ala Asn Cys Ser Leu Ala His Leu Pro Pro
 1 5 10 15

Trp His His Asp His Leu Gln Pro Pro Val His Leu Leu Gln Leu His
 20 25 30

Glu Gly Leu Leu Arg His Arg Arg Arg His Arg Gly Arg Leu Gln Pro
 35 40 45

His Leu Leu Arg Pro Gly Arg Arg Val Leu Pro Cys Pro Gln His Leu
 50 55 60

381

Arg Gly Arg Pro Val Cys His Pro Leu Ala Ser Pro Leu Gly Glu Pro
 65 70 75 80

Ala Gly Trp Gly Ala Ala Met Ala Val Ala Ser Ala Ala Ala Ala Ala
 85 90 95

Leu Val Val Ala Leu Gly Glu Asp Met Val Val Ala Leu Val Leu Ala
 100 105 110

Ser Val Val Ala Trp Val Leu Ala Leu Gly Val Asp Gly Leu Leu Ala
 115 120 125

Gly Gly Glu Lys Ala Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser
 130 135 140

Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu Ala Asn Thr Glu Leu Glu
 145 150 155 160

Val Lys Ile Arg Asp Trp Tyr Gln Arg Gln Ala Pro Gly Pro Ala Arg
 165 170 175

Asp Tyr Ser Gln Tyr Tyr Arg Thr Ile Glu Glu Leu Gln Asn Lys Ile
 180 185 190

Leu Thr Ala Thr Val Asp Asn Ala Asn Ile Leu Leu Gln Ile Asp Asn
 195 200 205

Ala Arg Leu Ala Ala Asp Asp Phe Arg Thr Lys Phe Glu Thr Glu Gln
 210 215 220

Ala Leu Arg Leu Ser Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Val
 225 230 235 240

Leu Asp Glu Leu Thr Leu Ala Arg Ala Asp Leu Glu Met Gln Ile Glu
 245 250 255

Asn Leu Lys Gly Gly Ala Gly Leu Thr Glu Glu Glu Pro Arg Gly Gly
 260 265 270

Asp Glu Arg Pro Gly Ser Arg Trp Val Val Arg Ser Met Trp Arg Arg
 275 280 285

Thr Leu Pro Gln Ala Trp Thr Xaa Ala Ala Ser Ser Thr Arg Cys
 290 295 300

382

<210> 296
 <211> 103
 <212> PRT
 <213> Homo sapien

<400> 296

Ala Asn Thr Pro His Ser Ser Thr Leu Leu Asn Ala Trp Gly Ser Ala
 1 5 10 15

His Cys Pro Ser Gln Arg Ala Thr Leu Val Phe Lys Ala His Ile Ser
 20 25 30

Leu Gly Tyr Asp Asn Thr Glu Asn Leu Ala Thr Thr Thr Pro Gln Gly
 35 40 45

Trp Trp Ser Leu Thr Gly Pro Pro Leu Ala Ser Lys Gly Gly Lys Glu
 50 55 60

Thr Pro Gly Ala Asn Gln Pro His Ala Gln Ser Thr Gln Arg Gly Glu
 65 70 75 80

Glu Glu Arg Arg Ala Pro His Cys Leu Gly Glu Ser His Leu His Thr
 85 90 95

Thr Leu Ser Pro Pro Pro His
 100

<210> 297
 <211> 91
 <212> PRT
 <213> Homo sapien

<400> 297

Arg Asp Pro Trp Ser Gln Pro Ala Pro Arg Thr Glu His Thr Lys Arg
 1 5 10 15

Lys Glu Glu Lys Thr Pro His Cys Trp Gly Gly Pro Cys His His Thr
 20 25 30

Gln Ser Pro Thr Thr Leu Asn Leu Pro Ser Ser Gln Leu Pro Cys Arg
 35 40 45

Pro Leu Glu Glu Gly Arg Gly Leu Gly Ser Arg Thr Leu Ser Cys Thr
 50 55 60

Ile Asn Lys Val Pro Cys Ala Gln Pro Lys Lys Lys Lys Lys Lys Gly
 65 70 75 80

383

Gly Val Met Ser Gly Gly Gly Asn Lys Gly Thr
 85 90

<210> 298
 <211> 256
 <212> PRT
 <213> Homo sapien

<400> 298

Met Gly Val Asn His Glu Lys Tyr Asp Asn Ser Leu Lys Ile Ile Ser
 1 5 10 15

Asn Ala Ser Cys Thr Thr Asn Cys Leu Ala Pro Leu Ala Lys Val Ile
 20 25 30

His Asp Asn Phe Gly Ile Val Glu Gly Leu Met Thr Thr Val His Ala
 35 40 45

Ile Thr Ala Thr Gln Lys Thr Val Asp Gly Pro Ser Gly Lys Leu Trp
 50 55 60

Arg Asp Gly Arg Gly Ala Leu Gln Asn Ile Ile Pro Ala Ser Thr Gly
 65 70 75 80

Ala Ala Lys Ala Val Gly Lys Val Ile Pro Glu Leu Asn Gly Lys Leu
 85 90 95

Thr Gly Met Ala Phe Arg Val Pro Thr Ala Asn Val Ser Val Val Asp
 100 105 110

Leu Thr Cys Arg Leu Glu Lys Pro Ala Lys Tyr Asp Asp Ile Lys Lys
 115 120 125

Val Val Lys Gln Ala Ser Glu Gly Pro Leu Lys Gly Ile Leu Gly Tyr
 130 135 140

Thr Glu His Gln Val Val Ser Ser Asp Phe Asn Ser Asp Thr His Ser
 145 150 155 160

Ser Thr Phe Asp Ala Gly Ala Gly Ile Ala Leu Asn Asp His Phe Val
 165 170 175

Lys Leu Ile Ser Trp Tyr Asp Asn Glu Phe Gly Tyr Ser Asn Arg Val
 180 185 190

384

Val Asp Leu Met Ala Thr Trp Leu Lys Ser Arg Pro Trp Thr Gln Pro
 195 200 205

Glu Ser Gln Arg Glu Arg Asp Leu Thr Val Gly Val Leu His Ile Arg
 210 215 220

Pro Thr Lys Asp Ser Pro Pro Gly Arg Asn Leu Lys Gly Glu Gly Pro
 225 230 235 240

Gly Gly Pro Lys Pro Gly Pro Lys Lys Gly Gly Ile Arg His Pro Pro
 245 250 255

<210> 299
 <211> 351
 <212> PRT
 <213> Homo sapien

<220>
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 <222> (304)..(304)
 <223> x=any amino acid

<220>
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 <223> x=any amino acid

<220>
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 <223> x=any amino acid

<220>
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 <222> (314)..(314)
 <223> x=any amino acid

<220>
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 <222> (317)..(318)
 <223> x=any amino acid

<220>
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 <222> (324)..(324)
 <223> x=any amino acid

<400> 299

Leu Arg Leu Arg Tyr Glu Ala Gly Val Gln Ala Glu Asn Gly Lys Leu
 1 5 10 15

385

Val Ile Asn Gly Asn Pro Ile Thr Ile Phe Gln Glu Arg Asp Pro Ser
 20 25 30
 Lys Ile Lys Trp Gly Asp Ala Gly Ala Glu Tyr Val Val Glu Ser Thr
 35 40 45
 Gly Val Phe Thr Thr Met Glu Lys Ala Gly Ala His Leu Gln Gly Gly
 50 55 60
 Ala Lys Arg Val Ile Ile Ser Ala Pro Ser Ala Asp Ala Pro Met Phe
 65 70 75 80
 Val Met Gly Val Asn His Glu Lys Tyr Asp Asn Ser Leu Lys Ile Ile
 85 90 95
 Ser Asn Ala Ser Cys Thr Thr Asn Cys Leu Ala Pro Leu Ala Lys Val
 100 105 110
 Ile His Asp Asn Phe Gly Ile Val Glu Gly Leu Met Thr Thr Val His
 115 120 125
 Ala Ile Thr Ala Thr Gln Lys Thr Val Asp Gly Pro Ser Gly Lys Leu
 130 135 140
 Trp Arg Asp Gly Arg Gly Ala Leu Gln Asn Ile Ile Pro Ala Ser Thr
 145 150 155 160
 Gly Ala Ala Lys Ala Val Gly Lys Val Ile Pro Glu Leu Asn Gly Lys
 165 170 175
 Leu Thr Gly Met Ala Phe Arg Val Pro Thr Ala Asn Val Ser Val Val
 180 185 190
 Asp Leu Thr Cys Arg Leu Glu Lys Pro Ala Lys Tyr Asp Asp Ile Lys
 195 200 205
 Lys Val Val Lys Gln Ala Ser Glu Gly Pro Leu Lys Gly Ile Leu Gly
 210 215 220
 Tyr Thr Glu His Gln Val Val Ser Ser Asp Phe Asn Ser Asp Thr His
 225 230 235 240
 Ser Ser Thr Phe Asp Ala Gly Ala Gly Ile Ala Leu Asn Asp His Phe
 245 250 255

386

Val Lys Leu Ile Ser Trp Tyr Asp Asn Glu Phe Gly Tyr Ser Asn Arg
 260 265 270

Val Val Asp Leu Met Ala Thr Trp Leu Lys Ser Arg Pro Trp Thr Gln
 275 280 285

Pro Glu Ser Gln Arg Glu Arg Asp Ser Leu Trp Glu Pro Ala Ile Xaa
 290 295 300

Pro Xaa Xaa Xaa Xaa Pro Xaa Ala Asp Xaa Lys Gly Xaa Xaa Pro Val
 305 310 315 320

Pro Lys Pro Xaa Gln Lys Arg Gly Glu Ser Gly Thr Pro Leu Lys Pro
 325 330 335

Arg Glu Asn Gly Ala Gly Lys Gly Gly Leu Trp Thr His Tyr Gly
 340 345 350

<210> 300
 <211> 432
 <212> PRT
 <213> Homo sapien

<400> 300

Met Thr Thr Thr Phe Leu Gln Thr Ser Ser Ser Thr Phe Gly Gly Gly
 1 5 10 15

Ser Thr Arg Gly Gly Ser Leu Leu Ala Gly Gly Gly Gly Phe Gly Gly
 20 25 30

Gly Ser Leu Ser Gly Gly Gly Gly Ser Arg Ser Ile Ser Ala Ser Ser
 35 40 45

Ala Arg Phe Val Ser Ser Gly Ser Gly Gly Gly Tyr Gly Gly Gly Met
 50 55 60

Arg Val Cys Gly Phe Gly Gly Gly Ala Gly Ser Val Phe Gly Gly Gly
 65 70 75 80

Phe Gly Gly Gly Val Gly Gly Gly Phe Gly Gly Gly Phe Gly Gly Gly
 85 90 95

Asp Gly Gly Leu Leu Ser Gly Asn Glu Lys Ile Thr Met Gln Asn Leu
 100 105 110

Asn Asp Arg Leu Ala Ser Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu

387

115

120

125

Ala Asn Ala Asp Leu Glu Val Lys Ile His Asp Trp Tyr Gln Lys Gln
 130 135 140

Thr Pro Ala Ser Pro Glu Cys Asp Tyr Ser Gln Tyr Phe Lys Thr Ile
 145 150 155 160

Glu Glu Leu Arg Asp Lys Ile Met Ala Thr Thr Ile Asp Asn Ser Arg
 165 170 175

Val Ile Leu Glu Ile Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg
 180 185 190

Leu Lys Cys Ala Pro Pro Ser Leu Ser Ser Ser Cys Met Pro Thr Leu
 195 200 205

Leu Gly Leu Leu Leu Ala Leu Thr Gln Ala Ala Lys Thr Pro Pro Thr
 210 215 220

Ser Phe Phe Gly Leu Pro Leu Leu Arg Tyr Glu Asn Glu Leu Ala Leu
 225 230 235 240

Arg Gln Gly Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Val Leu Asp
 245 250 255

Glu Leu Thr Leu Ala Arg Thr Asp Leu Glu Met Gln Ile Glu Gly Leu
 260 265 270

Asn Glu Glu Leu Ala Tyr Leu Lys Lys Asn His Glu Glu Glu Met Lys
 275 280 285

Glu Phe Ser Ser Gln Leu Ala Gly Gln Val Asn Val Glu Met Asp Ala
 290 295 300

Ala Pro Gly Val Asp Leu Thr Arg Val Leu Ala Glu Met Arg Glu Gln
 305 310 315 320

Tyr Glu Ala Met Ala Glu Lys Asn Arg Arg Asp Val Glu Ala Trp Phe
 325 330 335

Phe Ser Lys Thr Glu Glu Leu Asn Lys Glu Val Ala Ser Asn Thr Glu
 340 345 350

Met Ile Gln Thr Ser Lys Thr Glu Ile Thr Asp Leu Arg Arg Thr Met
 355 360 365

388

Gln Glu Leu Glu Ile Glu Leu Gln Ser Gln Leu Ser Met Lys Ala Gly
 370 375 380

Leu Glu Asn Ser Leu Ala Glu Thr Glu Cys Arg Tyr Ala Thr Gln Leu
 385 390 395 400

Gln Gln Ile Gln Gly Leu Ile Gly Gly Leu Glu Ala Gln Leu Ser Glu
 405 410 415

Leu Arg Cys Glu Met Glu Ala Gln Asn Gln Glu Val Gln Asp Ala Ala
 420 425 430

<210> 301
 <211> 360
 <212> PRT
 <213> Homo sapien

<400> 301

Arg Ser Met Thr Gly Thr Arg Ser Arg Pro Gln Pro Ala Gln Asn Ala
 1 5 10 15

Thr Thr Ala Asn Thr Ser Arg Pro Leu Lys Ser Ser Gly Thr Arg Ser
 20 25 30

Trp Pro Pro Pro Ser Thr Thr Pro Gly Ser Ser Trp Arg Ser Thr Met
 35 40 45

Pro Gly Trp Leu Arg Thr Thr Ser Gly Ser Ser Ala Leu Pro Arg Leu
 50 55 60

Ser Pro Leu Pro Ala Leu Pro Thr Leu Leu Gly Leu Leu Leu Ala Leu
 65 70 75 80

Thr Gln Ala Ala Lys Thr Pro Pro Thr Ser Phe Phe Gly Leu Pro Leu
 85 90 95

Leu Arg Tyr Glu Asn Glu Leu Ala Leu Arg Gln Gly Val Glu Ala Asp
 100 105 110

Ile Asn Gly Leu Arg Arg Val Leu Asp Glu Leu Thr Leu Ala Arg Thr
 115 120 125

Asp Leu Glu Met Gln Ile Glu Gly Leu Asn Glu Glu Leu Ala Tyr Leu
 130 135 140

389

Lys Lys Asn His Glu Glu Glu Met Lys Glu Phe Ser Ser Gln Leu Ala
 145 150 155 160

Gly Gln Val Asn Val Glu Met Asp Ala Ala Pro Gly Val Asp Leu Thr
 165 170 175

Arg Val Leu Ala Glu Met Arg Glu Gln Tyr Glu Ala Met Ala Glu Lys
 180 185 190

Asn Arg Arg Asp Val Glu Ala Trp Phe Phe Ser Lys Thr Glu Glu Leu
 195 200 205

Asn Lys Glu Val Ala Ser Asn Thr Glu Met Ile Gln Thr Ser Lys Thr
 210 215 220

Glu Ile Thr Asp Leu Arg Arg Thr Met Gln Glu Leu Glu Ile Glu Leu
 225 230 235 240

Gln Ser Gln Leu Ser Met Lys Ala Gly Leu Glu Asn Ser Leu Ala Glu
 245 250 255

Thr Glu Cys Arg Tyr Ala Thr Gln Leu Gln Gln Ile Gln Gly Leu Ile
 260 265 270

Gly Gly Leu Glu Ala Gln Leu Ser Glu Leu Arg Cys Glu Met Glu Ala
 275 280 285

Gln Asn Gln Glu Tyr Lys Met Leu Leu Asp Ile Lys Thr Arg Leu Glu
 290 295 300

Gln Glu Ile Ala Thr Tyr Arg Ser Leu Leu Glu Gly Gln Asp Ala Lys
 305 310 315 320

Met Ala Gly Ile Gly Ile Arg Glu Ala Ser Ser Gly Gly Gly Gly Ser
 325 330 335

Ser Ser Asn Phe His Ile Asn Val Glu Glu Ser Val Asp Gly Gln Val
 340 345 350

Val Ser Ser His Lys Arg Glu Ile
 355 360

<210> 302
 <211> 393
 <212> PRT
 <213> Homo sapien

390

<400> 302

Met Thr Thr Thr Phe Leu Gln Thr Ser Ser Ser Thr Phe Gly Gly Gly
 1 5 10 15

Ser Thr Arg Gly Gly Ser Leu Leu Ala Gly Gly Gly Gly Phe Gly Gly
 20 25 30

Gly Ser Leu Ser Gly Gly Gly Gly Ser Arg Ser Ile Ser Ala Ser Ser
 35 40 45

Ala Arg Phe Val Ser Ser Gly Ser Gly Gly Gly Tyr Gly Gly Gly Met
 50 55 60

Arg Val Cys Gly Phe Gly Gly Gly Ala Gly Ser Val Phe Gly Gly Gly
 65 70 75 80

Phe Gly Gly Gly Val Gly Gly Gly Phe Gly Gly Gly Phe Gly Gly Gly
 85 90 95

Asp Gly Gly Leu Leu Ser Gly Asn Glu Lys Ile Thr Met Gln Asn Leu
 100 105 110

Asn Asp Arg Leu Ala Ser Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu
 115 120 125

Ala Asn Ala Asp Leu Glu Val Lys Ile His Asp Trp Tyr Gln Lys Gln
 130 135 140

Thr Pro Ala Ser Pro Glu Cys Asp Tyr Ser Gln Tyr Phe Lys Thr Ile
 145 150 155 160

Glu Glu Leu Arg Asp Lys Ile Met Ala Thr Thr Ile Asp Asn Ser Arg
 165 170 175

Val Ile Leu Glu Ile Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg
 180 185 190

Leu Lys Tyr Glu Asn Glu Leu Ala Leu Arg Gln Gly Val Glu Ala Asp
 195 200 205

Ile Asn Gly Leu Arg Arg Val Leu Asp Glu Leu Thr Leu Ala Arg Thr
 210 215 220

Asp Leu Glu Met Gln Ile Glu Gly Leu Asn Glu Glu Leu Ala Tyr Leu
 225 230 235 240

391

Lys Lys Asn His Glu Glu Glu Met Lys Glu Phe Ser Ser Gln Leu Ala
 245 250 255

Gly Gln Val Asn Val Glu Met Asp Ala Ala Pro Gly Val Asp Leu Thr
 260 265 270

Arg Val Leu Ala Glu Met Arg Glu Gln Tyr Glu Ala Met Ala Glu Lys
 275 280 285

Asn Arg Arg Asp Val Glu Ala Trp Phe Phe Ser Lys Thr Glu Glu Leu
 290 295 300

Asn Lys Glu Val Ala Ser Asn Thr Glu Met Ile Gln Thr Ser Lys Thr
 305 310 315 320

Glu Ile Thr Asp Leu Arg Arg Thr Met Gln Glu Leu Glu Ile Glu Leu
 325 330 335

Gln Ser Gln Leu Ser Met Lys Ala Gly Leu Glu Asn Ser Leu Ala Glu
 340 345 350

Thr Glu Cys Arg Tyr Ala Thr Gln Leu Gln Gln Ile Gln Gly Leu Ile
 355 360 365

Gly Gly Leu Glu Ala Gln Leu Ser Glu Leu Arg Cys Glu Met Glu Ala
 370 375 380

Gln Asn Gln Glu Val Gln Asp Ala Ala
 385 390

<210> 303
 <211> 499
 <212> PRT
 <213> Homo sapien

<400> 303

Glu Leu Thr Gly Ser Ser Tyr Leu Ala Met Thr Thr Thr Phe Leu Gln
 1 5 10 15

Thr Ser Ser Ser Thr Phe Gly Gly Gly Ser Thr Arg Gly Gly Ser Leu
 20 25 30

Leu Ala Gly Gly Gly Gly Phe Gly Gly Gly Ser Leu Ser Gly Gly Gly
 35 40 45

Gly Ser Arg Ser Ile Ser Ala Ser Ser Ala Arg Phe Val Ser Ser Gly

392

50

55

60

Ser Gly Gly Gly Tyr Gly Gly Gly Met Arg Val Cys Gly Phe Gly Gly
65 70 75 80

Gly Ala Gly Ser Val Phe Gly Gly Gly Phe Gly Gly Gly Val Gly Gly
85 90 95

Gly Phe Gly Gly Gly Phe Gly Gly Gly Asp Gly Gly Leu Leu Ser Gly
100 105 110

Asn Glu Lys Ile Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr
115 120 125

Leu Asp Lys Val Arg Ala Leu Glu Glu Ala Asn Ala Asp Leu Glu Val
130 135 140

Lys Ile His Asp Trp Tyr Gln Lys Gln Thr Pro Ala Ser Pro Glu Cys
145 150 155 160

Asp Tyr Ser Gln Tyr Phe Lys Thr Ile Glu Glu Leu Arg Asp Lys Ile
165 170 175

Met Ala Thr Thr Ile Asp Asn Ser Arg Val Ile Leu Glu Ile Asp Asn
180 185 190

Ala Arg Leu Ala Ala Asp Asp Phe Arg Leu Lys Tyr Glu Asn Glu Leu
195 200 205

Ala Leu Arg Gln Gly Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Val
210 215 220

Leu Asp Glu Leu Thr Leu Ala Arg Thr Asp Leu Glu Met Gln Ile Glu
225 230 235 240

Gly Leu Asn Glu Glu Leu Ala Tyr Leu Lys Lys Asn His Glu Glu Glu
245 250 255

Met Lys Glu Phe Ser Ser Gln Leu Ala Gly Gln Val Asn Val Glu Met
260 265 270

Asp Ala Ala Pro Gly Val Asp Leu Thr Arg Val Leu Ala Glu Met Arg
275 280 285

Glu Gln Tyr Glu Ala Met Ala Glu Lys Asn Arg Arg Asp Val Glu Ala
290 295 300

393

Trp Phe Phe Ser Lys Thr Glu Glu Leu Asn Lys Glu Val Ala Ser Asn
 305 310 315 320

Thr Glu Met Ile Gln Thr Ser Lys Thr Glu Ile Thr Asp Leu Arg Arg
 325 330 335

Thr Met Gln Glu Leu Glu Ile Glu Leu Gln Ser Gln Leu Ser Met Lys
 340 345 350

Ala Gly Leu Glu Asn Ser Leu Ala Glu Thr Glu Cys Arg Tyr Ala Thr
 355 360 365

Gln Leu Gln Gln Ile Gln Gly Leu Ile Gly Gly Leu Glu Ala Gln Leu
 370 375 380

Ser Glu Leu Arg Cys Glu Met Glu Ala Gln Asn Gln Glu Tyr Lys Met
 385 390 395 400

Leu Leu Asp Ile Lys Thr Arg Leu Glu Gln Glu Ile Ala Thr Tyr Arg
 405 410 415

Ser Leu Leu Glu Gly Gln Asp Ala Lys Met Ala Gly Ile Gly Ile Arg
 420 425 430

Glu Asp Val Pro Cys His Ser Pro Leu Ser Ser Gly Gln Val Glu Asp
 435 440 445

Trp Pro Glu Gly Leu His Met Gln Thr Pro Val Pro Ala Phe Arg Glu
 450 455 460

Leu Lys Arg Val Pro Arg Ser Phe Ile Ser Gly Leu Cys Met Arg Ser
 465 470 475 480

Ile Pro Pro Leu Pro Leu Pro Thr Phe Phe Gly Ala Arg Arg Cys Ser
 485 490 495

Cys Ile Val

<210> 304
 <211> 458
 <212> PRT
 <213> Homo sapien
 <400> 304

394

Glu Leu Thr Gly Ser Ser Tyr Leu Ala Met Thr Thr Thr Phe Leu Gln
 1 5 10 15
 Thr Ser Ser Ser Thr Phe Gly Gly Gly Ser Thr Arg Gly Gly Ser Leu
 20 25 30
 Leu Ala Gly Gly Gly Gly Phe Gly Gly Gly Ser Leu Ser Gly Gly Gly
 35 40 45
 Gly Ser Arg Ser Ile Ser Ala Ser Ser Ala Arg Phe Val Ser Ser Gly
 50 55 60
 Ser Gly Gly Gly Tyr Gly Gly Gly Met Arg Val Cys Gly Phe Gly Gly
 65 70 75 80
 Gly Ala Gly Ser Val Phe Gly Gly Gly Phe Gly Gly Gly Val Gly Gly
 85 90 95
 Gly Phe Gly Gly Gly Phe Gly Gly Gly Asp Gly Gly Leu Leu Ser Gly
 100 105 110
 Asn Glu Lys Ile Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr
 115 120 125
 Leu Asp Lys Val Arg Ala Leu Glu Glu Ala Asn Ala Asp Leu Glu Val
 130 135 140
 Lys Ile His Asp Trp Tyr Gln Lys Gln Thr Pro Ala Ser Pro Glu Cys
 145 150 155 160
 Asp Tyr Ser Gln Tyr Phe Lys Thr Ile Glu Glu Leu Arg Asp Lys Ile
 165 170 175
 Met Ala Thr Thr Ile Asp Asn Ser Arg Val Ile Leu Glu Ile Asp Asn
 180 185 190
 Ala Arg Leu Ala Ala Asp Asp Phe Arg Leu Lys Tyr Glu Asn Glu Leu
 195 200 205
 Ala Leu Arg Gln Gly Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Val
 210 215 220
 Leu Asp Glu Leu Thr Leu Ala Arg Thr Asp Leu Glu Met Gln Ile Glu
 225 230 235 240
 Gly Leu Asn Glu Glu Leu Ala Tyr Leu Lys Lys Asn His Glu Glu Glu

395
 245 250 255
 Met Lys Glu Phe Ser Ser Gln Leu Ala Gly Gln Val Asn Val Glu Met
 260 265 270
 Asp Ala Ala Pro Gly Val Asp Leu Thr Arg Val Leu Ala Glu Met Arg
 275 280 285
 Glu Gln Tyr Glu Ala Met Ala Glu Lys Asn Arg Arg Asp Val Glu Ala
 290 295 300
 Trp Phe Phe Ser Lys Thr Glu Glu Leu Asn Lys Glu Val Ala Ser Asn
 305 310 315 320
 Thr Glu Met Ile Gln Thr Ser Lys Thr Glu Ile Thr Asp Leu Arg Arg
 325 330 335
 Thr Met Gln Glu Leu Glu Ile Glu Leu Gln Ser Gln Leu Ser Met Lys
 340 345 350
 Ala Gly Leu Glu Asn Ser Leu Ala Glu Thr Glu Cys Arg Tyr Ala Thr
 355 360 365
 Gln Leu Gln Gln Ile Gln Gly Leu Ile Gly Gly Leu Glu Ala Gln Leu
 370 375 380
 Ser Glu Leu Arg Cys Glu Met Glu Ala Gln Asn Gln Glu Tyr Lys Met
 385 390 395 400
 Leu Leu Asp Ile Lys Thr Arg Leu Glu Gln Glu Ile Ala Thr Tyr Arg
 405 410 415
 Ser Leu Leu Glu Gly Gln Asp Ala Lys Met Ala Gly Ile Gly Ile Arg
 420 425 430
 Glu Gly Leu Cys Met Arg Ser Ile Pro Pro Leu Pro Leu Pro Thr Phe
 435 440 445
 Phe Gly Ala Arg Arg Cys Ser Cys Ile Val
 450 455

<210> 305
 <211> 281
 <212> PRT
 <213> Homo sapien
 <400> 305

396

Met Thr Thr Thr Phe Leu Gln Thr Ser Ser Ser Thr Phe Gly Gly Gly
 1 5 10 15
 Ser Thr Arg Gly Gly Ser Leu Leu Ala Gly Gly Gly Gly Phe Gly Gly
 20 25 30
 Gly Ser Leu Ser Gly Gly Gly Gly Ser Arg Ser Ile Ser Ala Ser Ser
 35 40 45
 Ala Arg Phe Val Ser Ser Gly Ser Gly Gly Gly Tyr Gly Gly Gly Met
 50 55 60
 Arg Val Cys Gly Phe Gly Gly Gly Ala Gly Ser Val Phe Gly Gly Gly
 65 70 75 80
 Phe Gly Gly Gly Val Gly Gly Gly Phe Gly Gly Gly Phe Gly Gly Gly
 85 90 95
 Asp Gly Gly Leu Leu Ser Gly Asn Glu Lys Ile Thr Met Gln Asn Leu
 100 105 110
 Asn Asp Arg Leu Ala Ser Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu
 115 120 125
 Ala Asn Ala Asp Leu Glu Val Lys Ile His Asp Trp Tyr Gln Lys Gln
 130 135 140
 Thr Pro Ala Ser Pro Glu Cys Asp Tyr Ser Gln Tyr Phe Lys Thr Ile
 145 150 155 160
 Glu Glu Leu Arg Asp Lys Ile Met Ala Thr Thr Ile Asp Asn Ser Arg
 165 170 175
 Val Ile Leu Glu Ile Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg
 180 185 190
 Leu Lys Tyr Glu Asn Glu Leu Ala Leu Arg Gln Gly Val Glu Ala Asp
 195 200 205
 Ile Asn Gly Leu Arg Arg Val Leu Asp Glu Leu Thr Leu Ala Arg Thr
 210 215 220
 Asp Leu Glu Met Gln Ile Glu Gly Glu Gly Leu His Met Gln Thr Pro
 225 230 235 240

Val Pro Ala Phe Arg Glu Leu Lys Arg Val Pro Arg Ser Phe Ile Ser
245 250 255

Gly Leu Cys Met Arg Ser Ile Pro Pro Leu Pro Leu Pro Thr Phe Phe
260 265 270

Gly Ala Arg Arg Cys Ser Cys Ile Val
275 280

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<210> 306
<211> 49
<212> PRT
<213> Homo sapien
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<400> 306

Gly Arg Leu Leu Leu Leu Asn Ser Arg Pro Arg Arg Gln Ile Cys Leu
1 5 10 15

His His Leu Leu Leu Pro Glu Glu Leu Gln Glu Leu Arg Thr Cys Cys
20 25 30

Lys Ser Leu Pro Ser Lys Cys Ser Asn Pro Ala His Gly Asp Cys Leu
35 40 45

Phe

```
<210> 307
<211> 98
<212> PRT
<213> Homo sapien
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<400> 307

Ala Val Ala Gln Ala Met Phe Tyr Pro Phe Leu Glu Ser Ser Leu Asp
1 5 10 15

Gln Ala Asn Cys Arg Thr Thr Phe Phe Gly Ser Gln Glu Ser Pro Ile
20 25 30

Pro Ser Pro Trp Ser Pro Val Pro Gln Phe Tyr Ile Leu Leu Gln Ile
35 40 45

Ser Leu Gln Val Ser His Ser Met Ala Pro Ala Asp Thr Arg Thr Gln
50 55 60

Ser Phe Pro Lys Ser Lys Ser Ser Lys Gln Asn Pro His Pro Asn Pro
65 70 75 80

398

Lys Phe Cys Phe Gly Ser Asn Tyr Leu Gln Asn Val Phe Asn Lys Met
 85 90 95

Leu Leu

<210> 308
 <211> 226
 <212> PRT
 <213> Homo sapien

<400> 308

Met Cys Arg Ala Thr Asp Pro Arg Cys Pro Pro Cys Ser Ser Asp His
 1 5 10 15

Gly Gln His Gly Val Met Gly Val His Thr Gly Ala Asp Thr Arg Gly
 20 25 30

Gln Tyr Leu Thr Tyr Leu Leu Tyr Arg Trp Glu Gln Gly Gly Ser Gly
 35 40 45

Gly His Ser Gln Asn Tyr Thr Ala Phe Asn Arg Trp Gln Asn Trp Gly
 50 55 60

Ser Asp Pro Asp Leu Gly Ser Ser His Ser Trp Cys Asp Cys Gly Ser
 65 70 75 80

Ser Phe Pro His Leu Gly Leu Ala Ile Ser Leu Ser Glu Trp Thr Trp
 85 90 95

Arg Gly Arg Gly Pro Ser Ser Trp Met Ala Ala Gly Ile Lys Ser Ser
 100 105 110

Leu Gly Leu Ala Arg Arg Arg Ala Cys Gly Trp Trp Thr Gly Met Pro
 115 120 125

Gly Ser Ser Pro Gly Ser Leu Leu Pro Ser Asn Arg Leu Ser Leu Val
 130 135 140

Pro Leu Val Pro Ser Ala Ser Met Thr Arg Leu Met Arg Ser Arg Thr
 145 150 155 160

Ala Ser Gly Ser Ser Val Thr Ser Leu Asp Gly Thr Arg Ser Arg Ser
 165 170 175

His Thr Ser Glu Gly Thr Arg Ser Arg Ser His Thr Ser Glu Gly Thr

399

180

185

190

Arg Ser Arg Ser His Thr Ser Glu Gly Ala His Leu Asp Ile Thr Pro
 195 200 205

Asn Ser Gly Ala Ala Gly Asn Ser Ala Gly Pro Lys Ser Met Glu Val
 210 215 220

Ser Cys
 225

<210> 309
 <211> 208
 <212> PRT
 <213> Homo sapien
 <400> 309

Met Lys Leu Leu Ser Leu Val Ala Val Val Gly Cys Leu Leu Val Pro
 1 5 10 15

Pro Ala Glu Ala Asn Lys Val Arg Glu Val Ser Leu Gln His Leu Val
 20 25 30

Thr Thr Thr Val His Gly His Pro Val Tyr Arg Ala Asp Ser Glu Ser
 35 40 45

Ser Glu Asp Ile Arg Cys Lys Cys Ile Cys Pro Pro Tyr Arg Asn Ile
 50 55 60

Ser Gly His Ile Tyr Asn Gln Asn Val Ser Gln Lys Asp Cys Asn Cys
 65 70 75 80

Leu His Val Val Glu Pro Met Pro Val Pro Gly His Asp Val Glu Ala
 85 90 95

Tyr Cys Leu Leu Cys Glu Cys Arg Tyr Glu Glu Arg Ser Thr Thr Thr
 100 105 110

Ile Lys Val Ile Ile Val Ile Tyr Leu Ser Val Val Gly Ala Leu Leu
 115 120 125

Leu Tyr Met Ala Phe Leu Met Leu Val Asp Pro Leu Ile Arg Lys Pro
 130 135 140

Asp Ala Tyr Thr Glu Gln Leu His Asn Glu Glu Glu Asn Glu Asp Ala
 145 150 155 160

400

Arg Ser Met Ala Ala Ala Ala Ala Ser Leu Gly Gly Pro Arg Ala Asn
 165 170 175

Thr Val Leu Glu Arg Val Glu Gly Ala Gln Gln Arg Trp Lys Leu Gln
 180 185 190

Val Gln Glu Gln Arg Lys Thr Val Phe Asp Arg His Lys Met Leu Ser
 195 200 205

<210> 310
 <211> 170
 <212> PRT
 <213> Homo sapien

<400> 310

Met Thr Arg Gln Gly Pro Gln Pro Ala Ala Leu Gly Glu Ala Gln Pro
 1 5 10 15

Pro Ser Leu Gly Lys Val Arg Leu Trp Gly Ser Phe Phe Pro Cys Gln
 20 25 30

Thr Phe Arg Ile Gln Asp Pro Ser Gly Leu Pro Cys Gln Ile Phe Ser
 35 40 45

Phe Phe Leu Pro Thr Thr Gly Cys Ser Leu Tyr Gly Ser Ser Cys Cys
 50 55 60

Ile Pro Arg Gly Thr Pro Ser Lys His Ser Pro Gly Ala Cys Gly Arg
 65 70 75 80

Cys Pro Ala Ala Val Glu Ala Ala Gly Ala Gly Ala Ala Glu Asp Ser
 85 90 95

Leu Arg Ser Ala Gln Asp Ala Gln Leu Asp Gly Leu Val Trp Leu Gly
 100 105 110

Gln Gly Pro Asn Thr Met Ala Ala Ser Phe Gln Ala Gly Gln Ser Arg
 115 120 125

Gly Leu Leu Leu Pro Ser Leu Gly Ser Ser Leu Pro Phe Lys Ser Leu
 130 135 140

Trp His Phe Ser Ser Phe Ser Leu Thr Leu Glu Met Leu Tyr Leu Ala
 145 150 155 160

Ile Leu Ile Arg Glu Glu Gly Cys Gly Leu

401

165

170

<210> 311
 <211> 67
 <212> PRT
 <213> Homo sapien

<400> 311

Pro Gln Val Cys Trp Asn Ser Pro Leu Ala Trp Ser Arg Pro Arg Tyr
 1 5 10 15

Arg Arg Leu Leu Glu Gly Glu Ser Glu Gly Thr Arg Glu Glu Ser Lys
 20 25 30

Ser Ser Met Lys Val Ser Ala Thr Pro Lys Ile Lys Ala Ile Thr Gln
 35 40 45

Glu Thr Ile Asn Gly Arg Leu Val Leu Cys Gln Val Asn Glu Ile Gln
 50 55 60

Lys His Ala
 65

<210> 312
 <211> 32
 <212> PRT
 <213> Homo sapien

<400> 312

Pro Gln Val Cys Trp Asn Ser Pro Leu Ala Trp Ser Arg Pro Ser Thr
 1 5 10 15

Ala Leu Lys Glu Lys Arg Asn Lys Lys Glu Val Glu Thr Thr Lys Val
 20 25 30

<210> 313
 <211> 74
 <212> PRT
 <213> Homo sapien

<400> 313

Ala Ala Gly Val Leu Glu Phe Ala Leu Ser Val Val Ala Ala Glu Tyr
 1 5 10 15

Cys Phe Glu Gly Glu Lys Glu Gln Glu Arg Gly Arg Asn Asn Lys Ser
 20 25 30

Leu Thr Leu Phe Ser Pro Val Phe Pro Asn Ile Phe Asp Leu Glu Thr

402

35

40

45

Cys Phe Leu Arg Leu Pro Leu Ile Ser His Arg Lys Val Pro Gly Asp
 50 55 60

Cys Ser Leu Gly Gln Val Ala Leu Ser Asp
 65 70

<210> 314
 <211> 66
 <212> PRT
 <213> Homo sapien

<400> 314

Met His Val Glu Arg Arg Ser Val Met Asp Ser Gly Arg Pro Gly Arg
 1 5 10 15

Trp Gln Gly Ser Val Ala Gly Ser Leu Ser Ser Leu Glu Ser Ala Thr
 20 25 30

Thr Asp Ser Asp Leu Asp Tyr Asp Tyr Leu Gln Asn Trp Gly Pro Arg
 35 40 45

Phe Lys Lys Leu Ala Asp Leu Tyr Gly Ser Lys Asp Thr Phe Asp Asp
 50 55 60

Asp Ser
 65

<210> 315
 <211> 94
 <212> PRT
 <213> Homo sapien

<400> 315

Thr Ser Ser Leu Ala Ser Gln Arg Leu Lys Met Asn Ser Asp Ala Phe
 1 5 10 15

Ile Leu Leu Leu Tyr Met Asn Arg Ala Leu Arg Thr Ser Pro Val Ser
 20 25 30

Phe His Ser Ile Leu Leu Ser Val His Asp Ala Pro Ala Thr Leu Ala
 35 40 45

Ile Phe Arg Phe Leu Ile Gln Lys Lys Thr Arg Ser Phe Ser Met Glu
 50 55 60

403

Ser Arg Ser Pro Leu Leu Phe Cys Ile Asp Asp Asn Ser Leu Asn Leu
 65 70 75 80

Phe Cys Phe Leu Ala Leu Cys Met Cys Val Gly Gly Trp Asp
 85 90

<210> 316
 <211> 30
 <212> PRT
 <213> Homo sapien

<400> 316

Tyr Ala Leu Ile Gly Thr Gly Leu Tyr Leu Glu Arg Arg Gln Cys Asp
 1 5 10 15

Gly Cys Val Val Ala Ala Glu Val Asp Leu Val Leu Arg Asn
 20 25 30

<210> 317
 <211> 94
 <212> PRT
 <213> Homo sapien

<400> 317

Thr Ser Ser Leu Ala Ser Gln Arg Leu Lys Met Asn Ser Asp Ala Phe
 1 5 10 15

Ile Leu Leu Leu Tyr Met Asn Arg Ala Leu Arg Thr Ser Pro Val Ser
 20 25 30

Phe His Ser Ile Leu Leu Ser Val His Asp Ala Pro Ala Thr Leu Ala
 35 40 45

Ile Phe Arg Phe Leu Ile Gln Lys Lys Thr Arg Ser Phe Ser Met Glu
 50 55 60

Ser Arg Ser Pro Leu Leu Phe Cys Ile Asp Asp Asn Ser Leu Asn Leu
 65 70 75 80

Phe Cys Phe Leu Ala Leu Cys Met Cys Val Gly Gly Trp Asp
 85 90

<210> 318
 <211> 147
 <212> PRT
 <213> Homo sapien

<400> 318

404

Met Asp Asp Ser Thr Glu Arg Glu Gln Ser Arg Leu Thr Ser Cys Leu
 1 5 10 15

Lys Lys Arg Glu Glu Met Lys Leu Lys Glu Cys Val Ser Ile Leu Pro
 20 25 30

Arg Lys Glu Ser Pro Ser Val Arg Ser Ser Lys Asp Gly Lys Leu Leu
 35 40 45

Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Cys Cys Leu Thr Val Val
 50 55 60

Ser Phe Tyr Gln Val Ala Ala Leu Gln Gly Asp Leu Ala Ser Leu Arg
 65 70 75 80

Ala Glu Leu Gln Gly His His Ala Glu Lys Leu Pro Ala Gly Ala Gly
 85 90 95

Ala Pro Lys Ala Gly Leu Glu Glu Ala Pro Ala Val Thr Ala Gly Leu
 100 105 110

Lys Val Ser Leu Gln Gln Leu Gln Asp Ala Gly Lys Ile Leu Pro Thr
 115 120 125

Leu Leu Pro Leu Pro Arg Leu Ser Cys Leu Ser Asn Asn Leu Lys Phe
 130 135 140

Phe Cys Ser
 145

<210> 319
 <211> 353
 <212> PRT
 <213> Homo sapien

<400> 319

Met Asp His His Phe Ile Ala Glu Phe Lys Arg Thr His Lys Lys Asp
 1 5 10 15

Ile Ser Glu Asn Lys Arg Ala Val Arg Arg Leu Arg Thr Ala Cys Glu
 20 25 30

Arg Ala Lys Arg Thr Leu Ser Ser Ser Thr Gln Ala Ser Ile Glu Ile
 35 40 45

Asp Ser Leu Tyr Glu Gly Ile Asp Phe Tyr Thr Ser Ile Thr Arg Ala
 50 55 60

405

Arg	Phe	Glu	Glu	Leu	Asn	Ala	Asp	Leu	Phe	Arg	Gly	Thr	Leu	Asp	Pro	65	70	75	80
Val	Glu	Lys	Ala	Leu	Arg	Asp	Ala	Lys	Leu	Asp	Lys	Ser	Gln	Ile	His	85	90	95	
Asp	Ile	Val	Leu	Val	Gly	Gly	Ser	Thr	Arg	Ile	Pro	Lys	Ile	Gln	Lys	100	105	110	
Leu	Leu	Gln	Asp	Phe	Phe	Asn	Gly	Lys	Glu	Leu	Asn	Lys	Ser	Ile	Asn	115	120	125	
Pro	Asp	Glu	Ala	Val	Ala	Tyr	Gly	Ala	Ala	Val	Gln	Ala	Ala	Ile	Leu	130	135	140	
Ser	Gly	Asp	Lys	Ser	Glu	Asn	Val	Gln	Asp	Leu	Leu	Leu	Leu	Asp	Val	145	150	155	160
Thr	Pro	Leu	Ser	Leu	Gly	Ile	Glu	Thr	Ala	Gly	Gly	Val	Met	Thr	Val	165	170	175	
Leu	Ile	Lys	Arg	Asn	Thr	Thr	Ile	Pro	Thr	Lys	Gln	Thr	Gln	Thr	Phe	180	185	190	
Thr	Thr	Tyr	Ser	Asp	Asn	Gln	Pro	Gly	Val	Leu	Ile	Gln	Val	Tyr	Glu	195	200	205	
Gly	Glu	Arg	Ala	Met	Thr	Lys	Asp	Asn	Asn	Leu	Leu	Gly	Lys	Phe	Glu	210	215	220	
Leu	Thr	Gly	Ile	Pro	Pro	Ala	Pro	Arg	Gly	Val	Pro	Gln	Ile	Glu	Val	225	230	235	240
Thr	Phe	Asp	Ile	Asp	Ala	Asn	Gly	Ile	Leu	Asn	Val	Ser	Ala	Val	Asp	245	250	255	
Lys	Ser	Thr	Gly	Lys	Glu	Asn	Lys	Ile	Thr	Ile	Thr	Asn	Asp	Lys	Gly	260	265	270	
Arg	Leu	Ser	Lys	Glu	Asp	Ile	Glu	Arg	Met	Val	Gln	Glu	Ala	Glu	Lys	275	280	285	
Tyr	Lys	Ala	Glu	Asp	Glu	Lys	Gln	Arg	Asp	Lys	Val	Ser	Ser	Lys	Asn	290	295	300	

406

Ser Leu Glu Ser Tyr Ala Phe Asn Met Lys Ala Thr Val Glu Asp Glu
 305 310 315 320

Asn Phe Arg Gln Ile Thr Val Arg Gln Gln Ser Ser Trp Gln Gly Tyr
 325 330 335

Glu Tyr Gln Leu Ala Asp Lys Ile Ser Ser Gly Gly Gly Phe Asp Ile
 340 345 350

Thr

<210> 320
 <211> 205
 <212> PRT
 <213> Homo sapien

<220>
 <221> MISC_FEATURE
 <222> (201)..(201)
 <223> x=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (204)..(204)
 <223> x=any amino acid

<400> 320

Gln Leu Leu Leu Met Gly Ala Ala Val Gln Ala Ala Ile Leu Ser Gly
 1 5 10 15

Asp Lys Ser Glu Asn Val Gln Asp Leu Leu Leu Asp Val Thr Pro
 20 25 30

Leu Ser Leu Gly Ile Glu Thr Ala Gly Gly Val Met Thr Val Leu Ile
 35 40 45

Lys Arg Asn Thr Thr Ile Pro Thr Lys Gln Thr Gln Thr Phe Thr Thr
 50 55 60

Tyr Ser Asp Asn Gln Pro Gly Val Leu Ile Gln Val Tyr Glu Gly Glu
 65 70 75 80

Arg Ala Met Thr Lys Asp Asn Asn Leu Leu Gly Lys Phe Glu Leu Thr
 85 90 95

Gly Ile Pro Pro Ala Pro Arg Gly Val Pro Gln Ile Glu Val Thr Phe

407

100

105

110

Asp Ile Asp Ala Asn Gly Ile Leu Asn Val Ser Ala Val Asp Lys Ser
 115 120 125

Thr Gly Lys Glu Asn Lys Ile Thr Ile Thr Asn Asp Lys Gly Arg Leu
 130 135 140

Ser Lys Glu Asp Ile Glu Arg Met Val Gln Glu Ala Glu Lys Tyr Lys
 145 150 155 160

Ala Glu Asp Glu Lys Gln Arg Asp Lys Val Ser Ser Lys Asn Ser Leu
 165 170 175

Glu Ser Tyr Ala Phe Asn Met Lys Ala Thr Val Glu Asp Glu Asn Phe
 180 185 190

Arg Gln Ile Thr Val Arg Gln Gln Xaa Ser Gly Xaa Leu
 195 200 205

<210> 321

<211> 118

<212> PRT

<213> Homo sapien

<400> 321

Met Cys Pro Arg Cys Met Leu Glu Arg Arg Ser Val Met Asp Gly Arg
 1 5 10 15

Gly Arg Gly Gly Gly Pro Ala Ser Gly His His Ser Gly Pro Ser Leu
 20 25 30

His Ala Glu Asn His Thr Ser Gln Thr Phe Thr Gln His Phe Leu Pro
 35 40 45

Gln Ser Gln Lys Met His Lys Glu Glu His Glu Val Ala Val Leu Gly
 50 55 60

Ala Pro Pro Ser Thr Ile Leu Pro Arg Ser Thr Val Ile Asn Ile His
 65 70 75 80

Ser Glu Thr Ser Val Pro Asp His Val Val Trp Ser Leu Phe Asn Thr
 85 90 95

Leu Phe Met Asn Pro Cys Cys Leu Asn Trp Cys Cys Leu Gly Phe Asn
 100 105 110

408

Ser Ile Arg Leu Thr Pro
115

<210> 322
<211> 183
<212> PRT
<213> Homo sapien

<400> 322

Arg Val Asp Ser Tyr Ser Glu Cys Ala Leu Asp His Ala Arg Ala Ala
1 5 10 15

Gln Cys Asp Gly Trp Ser Arg Ala Arg Gly Gly Pro Ala Ser Gly His
20 25 30

His Ser Gly Pro Ser Leu His Ala Glu Asn His Thr Ser Gln Thr Phe
35 40 45

Thr Gln His Phe Leu Pro Gln Ser Gln Lys Met His Lys Glu Glu His
50 55 60

Glu Val Ala Val Leu Gly Ala Pro Pro Ser Thr Ile Leu Pro Arg Ser
65 70 75 80

Thr Val Ile Asn Ile His Ser Glu Thr Ser Val Pro Asp His Val Val
85 90 95

Trp Ser Leu Phe Asn Thr Leu Phe Leu Asn Trp Cys Cys Leu Gly Phe
100 105 110

Ile Ala Phe Ala Tyr Ser Val Lys Ser Arg Asp Arg Lys Met Val Gly
115 120 125

Asp Val Thr Gly Ala Gln Ala Tyr Ala Ser Thr Ala Lys Cys Leu Asn
130 135 140

Ile Trp Ala Leu Ile Leu Gly Ile Leu Met Thr Ile Gly Phe Ile Leu
145 150 155 160

Leu Leu Val Phe Gly Ser Val Thr Val Tyr His Ile Met Leu Gln Ile
165 170 175

Ile Gln Glu Lys Arg Gly Tyr
180

<210> 323

409

<211> 87
 <212> PRT
 <213> Homo sapien

<400> 323

Met Asn His Thr Val Gln Thr Phe Phe Ser Pro Val Asn Ser Gly Gln
 1 5 10 15

Pro Pro Asn Tyr Glu Met His Lys Glu Glu His Glu Val Ala Val Leu
 20 25 30

Gly Ala Pro Pro Ser Thr Ile Leu Pro Arg Ser Thr Val Ile Asn Ile
 35 40 45

His Ser Glu Thr Ser Val Pro Asp His Val Val Trp Ser Leu Phe Asn
 50 55 60

Thr Leu Phe Met Asn Pro Cys Cys Leu Asn Trp Cys Cys Leu Gly Phe
 65 70 75 80

Asn Ser Ile Arg Leu Thr Pro
 85

<210> 324
 <211> 156
 <212> PRT
 <213> Homo sapien

<400> 324

Pro Asp Arg Arg Trp Ser Ser Leu Asp Thr Met Asn His Thr Val Gln
 1 5 10 15

Thr Phe Phe Ser Pro Val Asn Ser Gly Gln Pro Pro Asn Tyr Glu Met
 20 25 30

His Lys Glu Glu His Glu Val Ala Val Leu Gly Ala Pro Pro Ser Thr
 35 40 45

Ile Leu Pro Arg Ser Thr Val Ile Asn Ile His Ser Glu Thr Ser Val
 50 55 60

Pro Asp His Val Val Trp Ser Leu Phe Asn Thr Leu Phe Leu Asn Trp
 65 70 75 80

Cys Cys Leu Gly Phe Ile Ala Phe Ala Tyr Ser Val Lys Ser Arg Asp
 85 90 95

410

Arg Lys Met Val Gly Asp Val Thr Gly Ala Gln Ala Tyr Ala Ser Thr
 100 105 110

Ala Lys Cys Leu Asn Ile Trp Ala Leu Ile Leu Gly Ile Leu Met Thr
 115 120 125

Ile Gly Phe Ile Leu Leu Leu Val Phe Gly Ser Val Thr Val Tyr His
 130 135 140

Ile Met Leu Gln Ile Ile Gln Glu Lys Arg Gly Tyr
 145 150 155

<210> 325
 <211> 76
 <212> PRT
 <213> Homo sapien

<400> 325

Met His Ala Arg Ala Ala Gln Cys Asp Gly Ser Trp Ser Arg Pro Ser
 1 5 10 15

Val Val Glu Ala Gly His Leu Glu Leu Arg Gln Ser Arg Arg Arg Asn
 20 25 30

Gly Glu Asp Ser Gly Gly Gly Gly Arg Pro Gly Trp Asp Glu Val Trp
 35 40 45

Trp Trp Val Val Ser Leu Gly Gly Asp Cys Ile Leu Gln His Leu Asn
 50 55 60

Ser Val Cys Leu Leu Cys Glu Thr Ser Ala Asp His
 65 70 75

<210> 326
 <211> 105
 <212> PRT
 <213> Homo sapien

<400> 326

Asp Pro Ser Ile Phe Leu Lys Ser Pro Leu Gly Trp Leu Arg Gly Arg
 1 5 10 15

Gly Leu Gly Val Gly Gly Leu Ser Arg Ser Asp Cys Arg Asp Arg Leu
 20 25 30

Val Cys Ser Val Asn Thr Asn Lys Ile Asp Leu Leu Ser Gly Lys Arg
 35 40 45

411

Lys Arg Lys Glu Lys Lys Thr Leu Cys Gly Ile Thr Gln Trp Val Ile
 50 55 60

Arg Arg Val Pro Val Gly Trp Thr Leu Val Phe Pro Gly Ser Gln Phe
 65 70 75 80

Pro Ala Gln His Met Ser Thr Asn Gly Glu Thr Thr Arg Ala Ala Gly
 85 90 95

Gly Gln Trp Lys Lys Arg Thr His Gly
 100 105

<210> 327
 <211> 109
 <212> PRT
 <213> Homo sapien

<400> 327

Met Pro Ser Ala Met Thr Val Tyr Ala Leu Val Val Val Ser Tyr Phe
 1 5 10 15

Leu Ile Thr Gly Gly Ile Ile Tyr Asp Val Ile Val Glu Pro Pro Ser
 20 25 30

Val Gly Ser Met Thr Asp Glu His Gly His Gln Arg Pro Val Ala Phe
 35 40 45

Leu Ala Tyr Arg Val Asn Gly Gln Tyr Ile Met Glu Gly Leu Ala Ser
 50 55 60

Ser Phe Leu Phe Thr Met Gly Gly Leu Gly Phe Ile Ile Leu Asp Arg
 65 70 75 80

Ser Asn Ala Pro Asn Ile Pro Lys Leu Asn Arg Phe Leu Leu Leu Phe
 85 90 95

Met Trp Ile Arg Leu Cys Pro Ile Glu Phe Phe His Gly
 100 105

<210> 328
 <211> 153
 <212> PRT
 <213> Homo sapien

<400> 328

Pro Leu Ala Trp Ser Arg Pro Arg Tyr Arg Val Pro Phe Leu Val Leu
 1 5 10 15

412

Glu Cys Pro Asn Leu Lys Leu Lys Lys Pro Pro Trp Leu His Met Pro
 20 25 30

Ser Ala Met Thr Val Tyr Ala Leu Val Val Val Ser Tyr Phe Leu Ile
 35 40 45

Thr Gly Gly Ile Ile Tyr Asp Val Ile Val Glu Pro Pro Ser Val Gly
 50 55 60

Ser Met Thr Asp Glu His Gly His Gln Arg Pro Val Ala Phe Leu Ala
 65 70 75 80

Tyr Arg Val Asn Gly Gln Tyr Ile Met Glu Gly Leu Ala Ser Ser Phe
 85 90 95

Leu Phe Thr Met Gly Gly Leu Gly Phe Ile Ile Leu Asp Arg Ser Asn
 100 105 110

Ala Pro Asn Ile Pro Lys Leu Asn Arg Phe Leu Leu Leu Phe Ile Gly
 115 120 125

Phe Val Cys Val Leu Leu Ser Phe Phe Met Ala Arg Val Phe Met Arg
 130 135 140

Met Lys Leu Pro Gly Tyr Leu Met Gly
 145 150

<210> 329
 <211> 61
 <212> PRT
 <213> Homo sapien

<400> 329

Leu Leu Gly Arg Ala Gly Leu Phe Pro Gly Gly Ala Trp Gly Leu Arg
 1 5 10 15

Pro Arg Thr Ala Leu Ala Ala Thr Asn Met Glu Thr Leu Tyr Arg Val
 20 25 30

Pro Phe Leu Val Leu Glu Cys Pro Asn Leu Lys Leu Lys Lys Pro Pro
 35 40 45

Trp Leu His Met Pro Ser Ala Met Thr Val Asn Asn Leu
 50 55 60

413

<210> 330
 <211> 102
 <212> PRT
 <213> Homo sapien

<400> 330

Ile Ile Tyr Asp Val Ile Val Glu Pro Pro Ser Val Gly Ser Met Thr
 1 5 10 15

Asp Glu His Gly His Gln Arg Pro Val Ala Phe Leu Ala Tyr Arg Val
 20 25 30

Asn Gly Gln Tyr Ile Met Glu Gly Leu Ala Ser Ser Phe Leu Phe Thr
 35 40 45

Met Gly Gly Leu Gly Phe Ile Ile Leu Asp Arg Ser Asn Ala Pro Asn
 50 55 60

Ile Pro Lys Leu Asn Arg Phe Leu Leu Leu Phe Ile Gly Phe Val Cys
 65 70 75 80

Val Leu Leu Ser Phe Phe Met Ala Arg Val Phe Met Arg Met Lys Leu
 85 90 95

Pro Gly Tyr Leu Met Gly
 100

<210> 331
 <211> 83
 <212> PRT
 <213> Homo sapien

<400> 331

Met Glu Thr Leu Tyr Arg Val Pro Phe Leu Val Leu Glu Cys Pro Asn
 1 5 10 15

Leu Lys Leu Lys Lys Pro Pro Trp Leu His Met Pro Ser Ala Met Thr
 20 25 30

Val Tyr Ala Leu Val Val Val Ser Tyr Phe Leu Ile Thr Gly Gly Ile
 35 40 45

Ile Tyr Asp Val Ile Val Glu Pro Pro Ser Val Gly Ser Met Thr Asp
 50 55 60

Glu His Gly His Gln Arg Pro Val Ala Phe Leu Ala Tyr Arg Gly Tyr
 65 70 75 80

414

Leu Met Gly

<210> 332
 <211> 123
 <212> PRT
 <213> Homo sapien

<400> 332

Met Pro Ser Ala Met Thr Val Tyr Ala Leu Val Val Val Ser Tyr Phe
 1 5 10 15

Leu Ile Thr Gly Gly Ile Ile Tyr Asp Val Ile Val Glu Pro Pro Ser
 20 25 30

Val Gly Ser Met Thr Asp Glu His Gly His Gln Arg Pro Val Ala Phe
 35 40 45

Leu Ala Tyr Arg Val Asn Gly Gln Tyr Ile Met Glu Gly Leu Ala Ser
 50 55 60

Ser Phe Leu Phe Thr Met Gly Gly Leu Gly Phe Ile Ile Leu Asp Arg
 65 70 75 80

Ser Asn Ala Pro Asn Ile Pro Lys Leu Asn Arg Phe Leu Leu Leu Phe
 85 90 95

Ile Gly Phe Val Cys Val Leu Leu Ser Phe Phe Met Ala Arg Val Phe
 100 105 110

Met Arg Met Lys Leu Pro Gly Tyr Leu Met Gly
 115 120

<210> 333
 <211> 83
 <212> PRT
 <213> Homo sapien

<400> 333

Met Glu Thr Leu Tyr Arg Val Pro Phe Leu Val Leu Glu Cys Pro Asn
 1 5 10 15

Leu Lys Leu Lys Lys Pro Pro Trp Leu His Met Pro Ser Ala Met Thr
 20 25 30

Val Tyr Ala Leu Val Val Val Ser Tyr Phe Leu Ile Thr Gly Gly Ile
 35 40 45

415

Ile Tyr Asp Val Ile Val Glu Pro Pro Ser Val Gly Ser Met Thr Asp
 50 55 60

Glu His Gly His Gln Arg Pro Val Ala Phe Leu Ala Tyr Arg Gly Tyr
 65 70 75 80

Leu Met Gly

<210> 334
 <211> 95
 <212> PRT
 <213> Homo sapien

<400> 334

Met Thr Glu Leu Glu Thr Ala Met Gly Met Ile Ile Asp Val Phe Ser
 1 5 10 15

Arg Tyr Ser Gly Ser Glu Gly Ser Thr Gln Thr Leu Thr Lys Gly Glu
 20 25 30

Leu Lys Val Leu Met Glu Lys Glu Leu Pro Gly Phe Leu Gln Ser Gly
 35 40 45

Lys Asp Lys Asp Ala Val Asp Lys Leu Leu Lys Asp Leu Asp Ala Asn
 50 55 60

Gly Asp Ala Gln Val Asp Phe Ser Glu Phe Ile Val Phe Val Ala Ala
 65 70 75 80

Ile Thr Ser Ala Cys His Lys Tyr Phe Glu Lys Ala Gly Leu Lys
 85 90 95

<210> 335
 <211> 184
 <212> PRT
 <213> Homo sapien

<400> 335

Ile Gln Ser Gln Cys Leu Gly Gly Ala His Pro Ser Lys Cys Lys Ser
 1 5 10 15

Ser Arg Gly Val Thr Glu Leu Ala Asn Arg Leu Val Cys Leu Val Phe
 20 25 30

Leu Leu His Val Asp Ile Ile Leu Leu Ile Leu Leu Pro Gly Pro Pro

416

35

40

45

Gln Gly Tyr Arg Lys Val Lys Ser Ser Pro Glu Pro Ile Met Ser Ser
50 55 60

Leu Leu Thr Glu Gly Thr Cys Pro Ala Thr Ala Arg Val Ala Ala Arg
65 70 75 80

Glu Glu Gly Gly Ser Glu Ser Ser Thr Met Thr Glu Leu Glu Thr Ala
85 90 95

Met Gly Met Ile Ile Asp Val Phe Ser Arg Tyr Ser Gly Ser Glu Gly
100 105 110

Ser Thr Gln Thr Leu Thr Lys Gly Glu Leu Lys Val Leu Met Glu Lys
115 120 125

Glu Leu Pro Gly Phe Leu Gln Ser Gly Lys Asp Lys Asp Ala Val Asp
130 135 140

Lys Leu Leu Lys Asp Leu Asp Ala Asn Gly Asp Ala Gln Val Asp Phe
145 150 155 160

Ser Glu Phe Ile Val Phe Val Ala Ala Ile Thr Ser Ala Cys His Lys
165 170 175

Tyr Phe Glu Lys Ala Gly Leu Lys
180

<210> 336
<211> 64
<212> PRT
<213> Homo sapien

<400> 336

Cys Arg Ile Arg Arg Ala Arg His Glu Ser Pro Gly Leu Arg Lys Gly
1 5 10 15

Thr Ser Leu Leu Arg Ser Asn Thr Gln Lys Gly Arg Phe Phe Gln Gly
20 25 30

Cys Arg Ile Val Gly Ser Gly Pro Lys Trp Leu Met Ala Pro Ser Lys
35 40 45

Thr Phe Ile Phe Asn Asn Val Lys Asp Leu Arg Ile Lys Arg Ile Gly
50 55 60

417

<210> 337
 <211> 51
 <212> PRT
 <213> Homo sapien

<400> 337

Ser Ser Glu Ile Pro Lys Asn Ser Cys Asn Val Arg Val Arg Lys Asp
 1 5 10 15

Gly Val Tyr Ser Ser Leu His Phe Tyr Gly Glu Ile Lys Ser Phe Ser
 20 25 30

Asn Glu Leu Lys Lys Lys Lys Lys Gly Gly Arg Ser Arg Ser Arg Thr
 35 40 45

Ser Phe Phe
 50

<210> 338
 <211> 140
 <212> PRT
 <213> Homo sapien

<400> 338

Pro Cys Gly Pro Arg Leu Pro Phe Lys Arg Ala Gly Pro Ala Pro Ala
 1 5 10 15

Ala Pro His Arg Gly Asp Gln Glu Ala Arg Trp Phe Ser Gly Ala Ala
 20 25 30

Pro Ser Arg Leu Pro Pro Ala Pro Arg Phe Ser Gly Pro Ala Ala Ile
 35 40 45

Phe Leu Ser Ala Gln Gly Pro Pro Ser Gly Ala Met Gln Pro Thr Leu
 50 55 60

Leu Leu Ser Leu Leu Gly Ala Val Gly Leu Ala Ala Val Asn Ser Met
 65 70 75 80

Pro Val Asp Asn Arg Asn His Asn Glu Gly Met Val Thr Arg Cys Ile
 85 90 95

Ile Glu Val Leu Ser Asn Ala Leu Ser Lys Ser Ser Ala Pro Pro Ile
 100 105 110

Thr Pro Glu Cys Arg Gln Val Leu Lys Thr Lys Lys Arg Thr Arg Lys
 115 120 125

418

Leu Gly Cys Asn Gly Phe Gly Thr Thr Glu Asp Ser
 130 135 140

<210> 339
 <211> 141
 <212> PRT
 <213> Homo sapien
 <400> 339

Met Lys Gly Asp Tyr Tyr Arg Tyr Leu Ala Glu Val Ala Ala Gly Asp
 1 5 10 15

Glu Pro Glu Arg Asp Trp Pro Ile Arg Ser Thr Gln Ser Ile Pro Lys
 20 25 30

Gly Lys Ala Phe Glu Ile Ser Lys Lys Glu Met Gln Pro Thr His Pro
 35 40 45

Ile Arg Leu Gly Leu Ala Leu Asn Phe Ser Val Phe Tyr Tyr Glu Ile
 50 55 60

Leu Asn Ser Pro Glu Lys Ala Trp Ser Leu Ala Lys Thr Ala Phe Asp
 65 70 75 80

Glu Ala Ile Ala Glu Leu Asp Thr Leu Ser Glu Glu Ser Tyr Lys Asp
 85 90 95

Ser Thr Leu Ile Met Gln Leu Leu Arg Asp Asn Leu Thr Leu Trp Thr
 100 105 110

Ser Asp Thr Gln Gly Asp Glu Ala Glu Ala Gly Glu Gly Gly Glu Asn
 115 120 125

Ser Ala Gly Leu Ser Lys Val Leu Ser Ala Ser Val Ser
 130 135 140

<210> 340
 <211> 122
 <212> PRT
 <213> Homo sapien
 <220>
 <221> MISC_FEATURE
 <222> (83)..(83)
 <223> x=any amino acid

<220>

419

<221> MISC_FEATURE
 <222> (117)..(117)
 <223> x=any amino acid

<400> 340

Ala Arg Ala Pro Ala Gly Glu Lys Ile Glu Thr Glu Leu Arg Asp Ile
 1 5 10 15

Cys Asn Gln Cys Thr Val Ser Leu Arg Lys Val Leu Asp Pro Asn Ala
 20 25 30

Ser Gln Ala Glu Ser Lys Val Phe Tyr Leu Lys Met Lys Gly Asp Tyr
 35 40 45

Tyr Arg Tyr Leu Ala Glu Val Ala Ala Gly Asp Glu Pro Glu Arg Asp
 50 55 60

Trp Pro Ile Arg Ser Thr Gln Ser Ile Pro Lys Gly Lys Ala Phe Glu
 65 70 75 80

Ile Ser Xaa Lys Glu Met Gln Pro Thr His Pro Ile Arg Leu Gly Leu
 85 90 95

Ala Leu Asn Phe Ser Val Phe Tyr Tyr Glu Ile Leu Asn Ser Pro Glu
 100 105 110

Lys Ala Trp Ser Xaa Cys Lys Asp Ser Phe
 115 120

<210> 341
 <211> 51
 <212> PRT
 <213> Homo sapien

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> x=any amino acid

<400> 341

Gly Arg Gly Arg Xaa Arg Ala Thr Cys Leu Ser Gly Arg Cys Trp Ala
 1 5 10 15

Arg Thr Val Glu Met Ser Glu Lys Lys Gln Pro Val Asp Leu Gly Leu
 20 25 30

Leu Glu Glu Asp Asp Glu Phe Glu Glu Phe Pro Ala Glu Gly Leu Gly

420

35

40

45

Trp Leu Arg
50

<210> 342

<211> 90

<212> PRT

<213> Homo sapien

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> x=any amino acid

<400> 342

Gly Arg Gly Arg Xaa Arg Ala Thr Cys Leu Ser Gly Arg Cys Trp Ala
1 5 10 15

Arg Thr Val Glu Met Ser Glu Lys Lys Gln Pro Val Asp Leu Gly Leu
20 25 30

Leu Glu Glu Asp Asp Glu Phe Glu Glu Phe Pro Ala Glu Asp Trp Ala
35 40 45

Gly Leu Asp Glu Asp Glu Asp Ala His Val Trp Glu Asp Asn Trp Asp
50 55 60

Asp Asp Asn Val Glu Asp Asp Phe Ser Asn Gln Leu Arg Ala Glu Leu
65 70 75 80

Glu Lys His Gly Tyr Lys Met Glu Thr Ser
85 90

<210> 343

<211> 44

<212> PRT

<213> Homo sapien

<400> 343

Leu Ala Trp Ser Arg Pro Arg Cys Gly Ser Asp Gly Gly Val Ser Leu
1 5 10 15

Arg Lys Ser Glu Gly Ser Asn Phe Ser Ala Tyr Leu Gly Gly Val Gly
20 25 30

Arg Gly Gln Ser Arg Cys Gln Arg Lys Ser Ser Arg
35 40

421

<210> 344
 <211> 88
 <212> PRT
 <213> Homo sapien

<400> 344

Lys Lys Lys Lys Lys Lys His Pro Lys Leu Val Leu Ser Leu Ser Leu
 1 5 10 15

Ser Pro Arg Val Glu Ala Leu Ala Gly Met Gly Gly His Lys Leu Gly
 20 25 30

Pro Gln Pro Ala Gln Ser Ala His Ser Asp Leu Gly Gly Lys Leu Gly
 35 40 45

Gly Thr Pro Gly Thr His Tyr His Ala Gly Ala Gly Arg Ser Arg Cys
 50 55 60

Thr Gln Gly Ile Pro Pro Thr Ala Glu Gly Ser Arg Asn Ser Thr Ser
 65 70 75 80

Pro Thr Ile Leu His Gln Thr Val
 85

<210> 345
 <211> 680
 <212> PRT
 <213> Homo sapien

<400> 345

Met Ala Leu Glu Ile His Met Ser Asp Pro Met Cys Leu Ile Glu Asn
 1 5 10 15

Phe Asn Glu Gln Leu Lys Val Asn Gln Glu Ala Leu Glu Ile Leu Ser
 20 25 30

Ala Ile Thr Gln Pro Val Val Val Val Ala Ile Val Gly Leu Tyr Arg
 35 40 45

Thr Gly Lys Ser Tyr Leu Met Asn Lys Leu Ala Gly Lys Asn Lys Gly
 50 55 60

Phe Ser Val Ala Ser Thr Val Gln Ser His Thr Lys Gly Ile Trp Ile
 65 70 75 80

Trp Cys Val Pro His Pro Asn Trp Pro Asn His Thr Leu Val Leu Leu

422

85 90 95

Asp Thr Glu Gly Leu Gly Asp Val Glu Lys Ala Asp Asn Lys Asn Asp
 100 105 110

Ile Gln Ile Phe Ala Leu Ala Leu Leu Leu Ser Ser Thr Phe Val Tyr
 115 120 125

Asn Thr Val Asn Lys Ile Asp Gln Gly Ala Ile Asp Leu Leu His Asn
 130 135 140

Val Thr Glu Leu Thr Asp Leu Leu Lys Ala Arg Asn Ser Pro Asp Leu
 145 150 155 160

Asp Arg Val Glu Asp Pro Ala Asp Ser Ala Ser Phe Phe Pro Asp Leu
 165 170 175

Val Trp Thr Leu Arg Asp Phe Cys Leu Gly Leu Glu Ile Asp Gly Gln
 180 185 190

Leu Val Thr Pro Asp Glu Tyr Leu Glu Asn Ser Leu Arg Pro Lys Gln
 195 200 205

Gly Ser Asp Gln Arg Val Gln Asn Phe Asn Leu Pro Arg Leu Cys Ile
 210 215 220

Gln Lys Phe Phe Pro Lys Lys Lys Cys Phe Ile Phe Asp Leu Pro Ala
 225 230 235 240

His Gln Lys Lys Leu Ala Gln Leu Glu Thr Leu Pro Asp Asp Glu Leu
 245 250 255

Glu Pro Glu Phe Val Gln Gln Val Thr Glu Phe Cys Ser Tyr Ile Phe
 260 265 270

Ser His Ser Met Thr Lys Thr Leu Pro Gly Gly Ile Met Val Asn Gly
 275 280 285

Ser Arg Leu Lys Asn Leu Val Leu Thr Tyr Val Asn Ala Ile Ser Ser
 290 295 300

Gly Asp Leu Pro Cys Ile Glu Asn Ala Val Leu Ala Leu Ala Gln Arg
 305 310 315 320

Glu Asn Ser Ala Ala Val Gln Lys Ala Ile Ala His Tyr Asp Gln Gln
 325 330 335

423

Met Gly Gln Lys Val Gln Leu Pro Met Glu Thr Leu Gln Glu Leu Leu
 340 345 350

Asp Leu His Arg Thr Ser Glu Arg Glu Ala Ile Glu Val Phe Met Lys
 355 360 365

Asn Ser Phe Lys Asp Val Asp Gln Ser Phe Gln Lys Glu Leu Glu Thr
 370 375 380

Leu Leu Asp Ala Lys Gln Asn Asp Ile Cys Lys Arg Asn Leu Glu Ala
 385 390 395 400

Ser Ser Asp Tyr Cys Ser Ala Leu Leu Lys Asp Ile Phe Gly Pro Leu
 405 410 415

Glu Glu Ala Val Lys Gln Gly Ile Tyr Ser Lys Pro Gly Gly His Asn
 420 425 430

Leu Phe Ile Gln Lys Thr Glu Glu Leu Lys Ala Lys Tyr Tyr Arg Glu
 435 440 445

Pro Arg Lys Gly Ile Gln Ala Glu Glu Val Leu Gln Lys Tyr Leu Lys
 450 455 460

Ser Lys Glu Ser Val Ser His Ala Ile Leu Gln Thr Asp Gln Ala Leu
 465 470 475 480

Thr Glu Thr Glu Lys Lys Lys Lys Gly Glu Lys Lys Val Glu Ile Met
 485 490 495

Gln Asp Arg Lys Lys Ser Ile Asn Phe Lys Leu Asn Leu Ala Trp Pro
 500 505 510

Ser Trp Asp Val Lys Leu Glu Gln Glu Trp Gln Arg Cys Phe Leu Ala
 515 520 525

Pro Gln Ala Tyr Leu Thr Gly Met Ile Leu His Cys Gly Tyr Leu Glu
 530 535 540

Gly Lys Asn Asn Pro Trp Glu Phe Tyr Pro Gly Ser Trp Asn Asn His
 545 550 555 560

Lys Gln Lys Trp Glu Ala Glu Gly Arg Gly Thr Leu Ile Leu Glu Lys
 565 570 575

424

Ile Ile Phe Phe Ser Ser Glu Ala Gln Val Lys Ala Glu Ala Glu Lys
 580 585 590

Ala Glu Ala Gln Arg Leu Ala Ala Ile Gln Arg Gln Asn Glu Gln Met
 595 600 605

Met Gln Glu Arg Glu Arg Leu His Gln Glu Gln Val Arg Gln Met Glu
 610 615 620

Ile Ala Lys Gln Asn Trp Leu Ala Glu Gln Gln Lys Met Gln Glu Gln
 625 630 635 640

Gln Met Gln Glu Gln Ala Ala Gln Leu Ser Thr Thr Phe Gln Ala Gln
 645 650 655

Asn Arg Ser Leu Leu Ser Glu Leu Gln His Ala Gln Arg Thr Val Asn
 660 665 670

Asn Asp Asp Pro Cys Val Leu Leu
 675 680

<210> 346
 <211> 544
 <212> PRT
 <213> Homo sapien

<400> 346

Ile Ile Thr Ser Arg Cys Pro Tyr Leu Ser Ser Gly Lys Ile Ile Leu
 1 5 10 15

Ala Ser Ala Ala Tyr Lys Ser Gly Asn Gln Asn Ser Thr Tyr Ile Arg
 20 25 30

Gln Ser Asn Ile Leu Asp Met Ala Leu Glu Ile His Met Ser Asp Pro
 35 40 45

Met Cys Leu Ile Glu Asn Phe Asn Glu Gln Leu Lys Val Asn Gln Glu
 50 55 60

Ala Leu Glu Ile Leu Ser Ala Ile Thr Gln Pro Val Val Val Val Ala
 65 70 75 80

Ile Val Gly Leu Tyr Arg Thr Gly Lys Ser Tyr Leu Met Asn Lys Leu
 85 90 95

Ala Gly Lys Asn Lys Gly Phe Ser Val Ala Ser Thr Val Gln Ser His

425

100	105	110
Thr Lys Gly Ile Trp Ile Trp Cys Val Pro His Pro Asn Trp Pro Asn 115 120 125		
His Thr Leu Val Leu Leu Asp Thr Glu Gly Leu Gly Asp Val Glu Lys 130 135 140		
Ala Asp Asn Lys Asn Asp Ile Gln Ile Phe Ala Leu Ala Leu Leu Leu 145 150 155 160		
Ser Ser Thr Phe Val Tyr Asn Thr Val Asn Lys Ile Asp Gln Gly Ala 165 170 175		
Ile Asp Leu Leu His Asn Val Thr Glu Leu Thr Asp Leu Leu Lys Ala 180 185 190		
Arg Asn Ser Pro Asp Leu Asp Arg Val Glu Asp Pro Ala Asp Ser Ala 195 200 205		
Ser Phe Phe Pro Asp Leu Val Trp Thr Leu Arg Asp Phe Cys Leu Gly 210 215 220		
Leu Glu Ile Asp Gly Gln Leu Val Thr Pro Asp Glu Tyr Leu Glu Asn 225 230 235 240		
Ser Leu Arg Pro Lys Gln Gly Ser Asp Gln Arg Val Gln Asn Phe Asn 245 250 255		
Leu Pro Arg Leu Cys Ile Gln Lys Phe Phe Pro Lys Lys Lys Cys Phe 260 265 270		
Ile Phe Asp Leu Pro Ala His Gln Lys Lys Leu Ala Gln Leu Glu Thr 275 280 285		
Leu Pro Asp Asp Glu Leu Glu Pro Glu Phe Val Gln Gln Val Thr Glu 290 295 300		
Phe Cys Ser Tyr Ile Phe Ser His Ser Met Thr Lys Thr Leu Pro Gly 305 310 315 320		
Gly Ile Met Val Asn Gly Ser Arg Leu Lys Asn Leu Val Leu Thr Tyr 325 330 335		
Val Asn Ala Ile Ser Ser Gly Asp Leu Pro Cys Ile Glu Asn Ala Val 340 345 350		

426

Leu Ala Leu Ala Gln Arg Glu Asn Ser Ala Ala Val Gln Lys Ala Ile
 355 360 365

Ala His Tyr Asp Gln Gln Met Gly Gln Lys Val Gln Leu Pro Met Glu
 370 375 380

Thr Leu Gln Glu Leu Leu Asp Leu His Arg Thr Ser Glu Arg Glu Ala
 385 390 395 400

Ile Glu Val Phe Met Lys Asn Ser Phe Lys Asp Val Asp Gln Ser Phe
 405 410 415

Gln Lys Glu Leu Glu Thr Leu Leu Asp Ala Lys Gln Asn Asp Ile Cys
 420 425 430

Lys Arg Asn Leu Glu Ala Ser Ser Asp Tyr Cys Ser Ala Leu Leu Lys
 435 440 445

Asp Ile Phe Gly Pro Leu Glu Glu Ala Val Lys Gln Gly Ile Tyr Ser
 450 455 460

Lys Pro Gly Gly His Asn Leu Phe Ile Gln Lys Thr Glu Glu Leu Lys
 465 470 475 480

Ala Lys Tyr Tyr Arg Glu Pro Arg Lys Gly Ile Gln Ala Glu Glu Val
 485 490 495

Leu Gln Lys Tyr Leu Lys Ser Lys Glu Ser Val Ser His Ala Ile Leu
 500 505 510

Gln Thr Asp Gln Ala Leu Thr Glu Thr Glu Lys Lys Lys Lys Gly Glu
 515 520 525

Lys Lys Val Glu Ile Met Gln Asp Arg Lys Lys Ser Ile Asn Phe Lys
 530 535 540

<210> 347

<211> 487

<212> PRT

<213> Homo sapien

<400> 347

Met Val Trp Gln Cys Cys Leu Met Leu Leu Glu Arg Arg Ser Val Met
 1 5 10 15

Asp	Gly	Arg	Pro 20	Gly	Arg	Ala	Trp	Ser 25	Arg	Pro	Arg	Tyr	Asn 30	Thr	Val
Asn	Lys	Ile 35	Asp	Gln	Gly	Ala	Ile 40	Asp	Leu	Leu	His	Asn 45	Val	Thr	Glu
Leu	Thr 50	Asp	Leu	Leu	Lys	Ala 55	Arg	Asn	Ser	Pro	Asp 60	Leu	Asp	Arg	Val
Glu 65	Asp	Pro	Ala	Asp	Ser 70	Ala	Ser	Phe	Phe	Pro 75	Asp	Leu	Val	Trp	Thr 80
Leu	Arg	Asp	Phe	Cys 85	Leu	Gly	Leu	Glu	Ile 90	Asp	Gly	Gln	Leu	Val 95	Thr
Pro	Asp	Glu	Tyr 100	Leu	Glu	Asn	Ser	Leu 105	Arg	Pro	Lys	Gln	Gly 110	Ser	Asp
Gln	Arg	Val 115	Gln	Asn	Phe	Asn	Leu 120	Pro	Arg	Leu	Cys	Ile 125	Gln	Lys	Phe
Phe	Pro 130	Lys	Lys	Lys	Cys	Phe 135	Ile	Phe	Asp	Leu	Pro 140	Ala	His	Gln	Lys
Lys 145	Leu	Ala	Gln	Leu	Glu 150	Thr	Leu	Pro	Asp	Asp 155	Glu	Leu	Glu	Pro	Glu 160
Phe	Val	Gln	Gln	Val 165	Thr	Glu	Phe	Cys	Ser 170	Tyr	Ile	Phe	Ser	His 175	Ser
Met	Thr	Lys 180	Thr	Leu	Pro	Gly	Gly	Ile 185	Met	Val	Asn	Gly	Ser 190	Arg	Leu
Lys	Asn 195	Leu	Val	Leu	Thr	Tyr	Val 200	Asn	Ala	Ile	Ser	Ser 205	Gly	Asp	Leu
Pro	Cys 210	Ile	Glu	Asn	Ala	Val 215	Leu	Ala	Leu	Ala	Gln 220	Arg	Glu	Asn	Ser
Ala 225	Ala	Val	Gln	Lys	Ala 230	Ile	Ala	His	Tyr	Asp 235	Gln	Gln	Met	Gly	Gln 240
Lys	Val	Gln	Leu	Pro 245	Met	Glu	Thr	Leu	Gln 250	Glu	Leu	Leu	Asp	Leu 255	His
Arg	Thr	Ser	Glu	Arg	Glu	Ala	Ile	Glu	Val	Phe	Met	Lys	Asn	Ser	Phe

<210>	348
<211>	472

429

<212> PRT

<213> Homo sapien

<400> 348

Trp Ile Gly Arg Pro Gly Arg Ala Trp Ser Arg Pro Arg Tyr Asn Thr
 1 5 10 15

Val Asn Lys Ile Asp Gln Gly Ala Ile Asp Leu Leu His Asn Val Thr
 20 25 30

Glu Leu Thr Asp Leu Leu Lys Ala Arg Asn Ser Pro Asp Leu Asp Arg
 35 40 45

Val Glu Asp Pro Ala Asp Ser Ala Ser Phe Phe Pro Asp Leu Val Trp
 50 55 60

Thr Leu Arg Asp Phe Cys Leu Gly Leu Glu Ile Asp Gly Gln Leu Val
 65 70 75 80

Thr Pro Asp Glu Tyr Leu Glu Asn Ser Leu Arg Pro Lys Gln Gly Ser
 85 90 95

Asp Gln Arg Val Gln Asn Phe Asn Leu Pro Arg Leu Cys Ile Gln Lys
 100 105 110

Phe Phe Pro Lys Lys Lys Cys Phe Ile Phe Asp Leu Pro Ala His Gln
 115 120 125

Lys Lys Leu Ala Gln Leu Glu Thr Leu Pro Asp Asp Glu Leu Glu Pro
 130 135 140

Glu Phe Val Gln Gln Val Thr Glu Phe Cys Ser Tyr Ile Phe Ser His
 145 150 155 160

Ser Met Thr Lys Thr Leu Pro Gly Gly Ile Met Val Asn Gly Ser Arg
 165 170 175

Leu Lys Asn Leu Val Leu Thr Tyr Val Asn Ala Ile Ser Ser Gly Asp
 180 185 190

Leu Pro Cys Ile Glu Asn Ala Val Leu Ala Leu Ala Gln Arg Glu Asn
 195 200 205

Ser Ala Ala Val Gln Lys Ala Ile Ala His Tyr Asp Gln Gln Met Gly
 210 215 220

430

Gln Lys Val Gln Leu Pro Met Glu Thr Leu Gln Glu Leu Leu Asp Leu
 225 230 235 240

His Arg Thr Ser Glu Arg Glu Ala Ile Glu Val Phe Met Lys Asn Ser
 245 250 255

Phe Lys Asp Val Asp Gln Ser Phe Gln Lys Glu Leu Glu Thr Leu Leu
 260 265 270

Asp Ala Lys Gln Asn Asp Ile Cys Lys Arg Asn Leu Glu Ala Ser Ser
 275 280 285

Asp Tyr Cys Ser Ala Leu Leu Lys Asp Ile Phe Gly Pro Leu Glu Glu
 290 295 300

Ala Val Lys Gln Gly Ile Tyr Ser Lys Pro Gly Gly His Asn Leu Phe
 305 310 315 320

Ile Gln Lys Thr Glu Glu Leu Lys Ala Lys Tyr Tyr Arg Glu Pro Arg
 325 330 335

Lys Gly Ile Gln Ala Glu Glu Val Leu Gln Lys Tyr Leu Lys Ser Lys
 340 345 350

Glu Ser Val Ser His Ala Ile Leu Gln Thr Asp Gln Ala Leu Thr Glu
 355 360 365

Thr Glu Lys Lys Lys Lys Glu Ala Gln Val Lys Ala Glu Ala Glu Lys
 370 375 380

Ala Glu Ala Gln Arg Leu Ala Ala Ile Gln Arg Gln Asn Glu Gln Met
 385 390 395 400

Met Gln Glu Arg Glu Arg Leu His Gln Glu Gln Val Arg Gln Met Glu
 405 410 415

Ile Ala Lys Gln Asn Trp Leu Ala Glu Gln Gln Lys Met Gln Glu Gln
 420 425 430

Gln Met Gln Glu Gln Ala Ala Gln Leu Ser Thr Thr Phe Gln Ala Gln
 435 440 445

Asn Arg Ser Leu Leu Ser Glu Leu Gln His Ala Gln Arg Thr Val Asn
 450 455 460

Asn Asp Asp Pro Cys Val Leu Leu

431

465

470

<210> 349

<211> 401

<212> PRT

<213> Homo sapien

<400> 349

Met Gly Gly Asp Leu Val Leu Gly Leu Gly Ala Leu Arg Arg Arg Lys
 1 5 10 15

Arg Leu Leu Glu Gln Glu Lys Ser Leu Ala Gly Trp Ala Leu Val Leu
 20 25 30

Ala Gly Thr Gly Ile Gly Leu Met Val Leu His Ala Glu Met Leu Trp
 35 40 45

Phe Gly Gly Cys Ser Trp Ala Leu Tyr Leu Phe Leu Val Lys Cys Thr
 50 55 60

Ile Ser Ile Ser Thr Phe Leu Leu Leu Cys Leu Ile Val Ala Phe His
 65 70 75 80

Ala Lys Glu Val Gln Leu Phe Met Thr Asp Asn Gly Leu Arg Asp Trp
 85 90 95

Arg Val Ala Leu Thr Gly Arg Gln Ala Ala Gln Ile Val Leu Glu Leu
 100 105 110

Val Val Cys Gly Leu His Pro Ala Pro Val Arg Gly Pro Pro Cys Val
 115 120 125

Gln Asp Leu Gly Ala Pro Leu Thr Ser Pro Gln Pro Trp Pro Gly Phe
 130 135 140

Leu Gly Gln Gly Glu Ala Leu Leu Ser Leu Ala Met Leu Leu Arg Leu
 145 150 155 160

Tyr Leu Val Pro Arg Ala Val Leu Leu Arg Ser Gly Val Leu Leu Asn
 165 170 175

Ala Ser Tyr Arg Ser Ile Gly Ala Leu Asn Gln Val Arg Phe Arg His
 180 185 190

Trp Phe Val Ala Lys Leu Tyr Met Asn Thr His Pro Gly Arg Leu Leu
 195 200 205

432

Leu Gly Leu Thr Leu Gly Leu Trp Leu Thr Thr Ala Trp Val Leu Ser
 210 215 220

Val Ala Glu Arg Gln Ala Val Asn Ala Thr Gly His Leu Ser Asp Thr
 225 230 235 240

Leu Trp Leu Ile Pro Ile Thr Phe Leu Thr Ile Gly Tyr Gly Asp Val
 245 250 255

Val Pro Gly Thr Met Trp Gly Lys Ile Val Cys Leu Cys Thr Gly Val
 260 265 270

Met Gly Val Cys Cys Thr Ala Leu Leu Val Ala Val Val Ala Arg Lys
 275 280 285

Leu Glu Phe Asn Lys Ala Glu Lys His Val His Asn Phe Met Met Asp
 290 295 300

Ile Gln Tyr Thr Lys Glu Met Lys Glu Ser Ala Ala Arg Val Leu Gln
 305 310 315 320

Glu Ala Trp Met Phe Tyr Lys His Thr Arg Arg Lys Glu Ser His Ala
 325 330 335

Ala Arg Arg His Gln Arg Lys Leu Leu Ala Ala Ile Asn Ala Arg Ala
 340 345 350

Ala Leu Tyr Ala His Val Ser Met Cys Thr His Val Gln Val Thr Ser
 355 360 365

Leu His Gly Cys Val Cys Ala Cys Pro Cys Leu Ser Arg Ser Gly His
 370 375 380

Pro Gly Val Val Ser Leu Asn Ile Gln Val Ser Pro Gly Ser Asp Arg
 385 390 395 400

Ala

<210> 350
 <211> 134
 <212> PRT
 <213> Homo sapien

<400> 350

Met Ala Gly Arg Gln Gly Arg Leu Phe Ser Ser Ala Leu Ala Leu Ser

1 5 10 15

Gly Gly Lys Asp Ser Val Arg Gly Trp Thr Gly Ser Glu Gly Arg Trp
20 25 30

Cys Thr Leu Ser Pro Ser Leu Thr Leu Asp Gly Leu Leu Pro Leu Cys
35 40 45

Leu Val Ser Leu Ser Leu Ser Ala Cys Pro Gly His Ile Val Trp Leu
50 55 60

Ser Ile Gln Cys Leu Cys Leu Asn Ala Leu Leu Pro Pro Gly Leu Gly
65 70 75 80

Ala Arg Lys His Leu Pro Pro Val Ser His Phe Cys Pro Pro Val Ser
85 90 95

Val Cys Thr Ser Val Cys Pro Thr Leu Thr Leu Pro Leu Pro Gly Leu
100 105 110

Pro Leu His Gln Ser Leu Cys Leu Ser Arg Thr His Glu Glu Glu Pro
115 120 125

Gly Tyr Phe Pro Gln Tyr
130

<210> 351
<211> 161
<212> PRT
<213> Homo sapien

<400> 351

Gly Gly Trp Asp Leu Gly Arg Lys Ala Ser Trp Arg Lys Gly Ser Cys
1 5 10 15

Gly Gln His Pro Met Trp Leu Arg Gly Arg Gly Met Ala Gly Arg Gln
20 25 30

Gly Arg Leu Phe Ser Ser Ala Leu Ala Leu Ser Gly Gly Lys Asp Ser
35 40 45

Val Arg Gly Trp Thr Gly Ser Glu Gly Arg Trp Cys Thr Leu Ser Pro
50 55 60

Ser Leu Thr Leu Asp Gly Leu Leu Pro Leu Cys Leu Val Ser Leu Ser
65 70 75 80

434

Leu Ser Ala Cys Pro Gly His Ile Val Trp Leu Ser Ile Gln Cys Leu
 85 90 95

Cys Leu Asn Ala Leu Leu Pro Pro Gly Leu Gly Ala Arg Lys His Leu
 100 105 110

Pro Pro Val Ser His Phe Cys Pro Pro Val Ser Val Cys Thr Ser Val
 115 120 125

Cys Pro Thr Leu Thr Leu Pro Leu Pro Gly Leu Pro Leu His Gln Ser
 130 135 140

Leu Cys Leu Ser Arg Thr His Glu Glu Glu Pro Gly Tyr Phe Pro Gln
 145 150 155 160

Tyr

<210> 352
 <211> 427
 <212> PRT
 <213> Homo sapien

<400> 352

Met Gly Gly Asp Leu Val Leu Gly Leu Gly Ala Leu Arg Arg Arg Lys
 1 5 10 15

Arg Leu Leu Glu Gln Glu Lys Ser Leu Ala Gly Trp Ala Leu Val Leu
 20 25 30

Ala Gly Thr Gly Ile Gly Leu Met Val Leu His Ala Glu Met Leu Trp
 35 40 45

Phe Gly Gly Cys Ser Trp Ala Leu Tyr Leu Phe Leu Val Lys Cys Thr
 50 55 60

Ile Ser Ile Ser Thr Phe Leu Leu Leu Cys Leu Ile Val Ala Phe His
 65 70 75 80

Ala Lys Glu Val Gln Leu Phe Met Thr Asp Asn Gly Leu Arg Asp Trp
 85 90 95

Arg Val Ala Leu Thr Gly Arg Gln Ala Ala Gln Ile Val Leu Glu Leu
 100 105 110

Val Val Cys Gly Leu His Pro Ala Pro Val Arg Gly Pro Pro Cys Val

435

115

120

125

Gln Asp Leu Gly Ala Pro Leu Thr Ser Pro Gln Pro Trp Pro Gly Phe
 130 135 140

Leu Gly Gln Gly Glu Ala Leu Leu Ser Leu Ala Met Leu Leu Arg Leu
 145 150 155 160

Tyr Leu Val Pro Arg Ala Val Leu Leu Arg Ser Gly Val Leu Leu Asn
 165 170 175

Ala Ser Tyr Arg Ser Ile Gly Ala Leu Asn Gln Val Arg Phe Arg His
 180 185 190

Trp Phe Val Ala Lys Leu Tyr Met Asn Thr His Pro Gly Arg Leu Leu
 195 200 205

Leu Gly Leu Thr Leu Gly Leu Trp Leu Thr Thr Ala Trp Val Leu Ser
 210 215 220

Val Ala Glu Arg Gln Ala Val Asn Ala Thr Gly His Leu Ser Asp Thr
 225 230 235 240

Leu Trp Leu Ile Pro Ile Thr Phe Leu Thr Ile Gly Tyr Gly Asp Val
 245 250 255

Val Pro Gly Thr Met Trp Gly Lys Ile Val Cys Leu Cys Thr Gly Val
 260 265 270

Met Gly Val Cys Cys Thr Ala Leu Leu Val Ala Val Val Ala Arg Lys
 275 280 285

Leu Glu Phe Asn Lys Ala Glu Lys His Val His Asn Phe Met Met Asp
 290 295 300

Ile Gln Tyr Thr Lys Glu Met Lys Glu Ser Ala Ala Arg Val Leu Gln
 305 310 315 320

Glu Ala Trp Met Phe Tyr Lys His Thr Arg Arg Lys Glu Ser His Ala
 325 330 335

Ala Arg Arg His Gln Arg Lys Leu Leu Ala Ala Ile Asn Ala Phe Arg
 340 345 350

Gln Val Arg Leu Lys His Arg Lys Leu Arg Glu Gln Val Asn Ser Met
 355 360 365

436

Val Asp Ile Ser Lys Met His Met Ile Leu Tyr Asp Leu Gln Gln Asn
 370 375 380

Leu Ser Ser Ser His Arg Ala Leu Glu Lys Gln Ile Asp Thr Leu Ala
 385 390 395 400

Gly Lys Leu Asp Ala Leu Thr Glu Leu Leu Ser Thr Ala Leu Gly Pro
 405 410 415

Arg Gln Leu Pro Glu Pro Ser Gln Gln Ser Lys
 420 425

<210> 353
 <211> 66
 <212> PRT
 <213> Homo sapien

<400> 353

Met His Ala Arg Ala Ala Gln Cys Asp Gly Cys Gly Arg Gly Glu Val
 1 5 10 15

Lys Ala Met Ile Glu Thr Lys Thr Gly Ile Ile Pro Glu Thr Gln Ile
 20 25 30

Val Thr Cys Asn Gly Lys Arg Leu Glu Asp Gly Lys Met Met Ala Asp
 35 40 45

Tyr Gly Ile Arg Lys Gly Asn Leu Leu Phe Leu Ala Ser Tyr Cys Ile
 50 55 60

Gly Gly
 65

<210> 354
 <211> 74
 <212> PRT
 <213> Homo sapien

<400> 354

Asp Pro Asp Cys Asp Leu Gln Trp Lys Glu Thr Gly Arg Trp Glu Asp
 1 5 10 15

Asp Gly Arg Leu Arg His Gln Lys Gly Gln Leu Thr Leu Pro Gly Ile
 20 25 30

Leu Leu Tyr Trp Arg Val Thr Thr Leu Gly Met Gly Cys Trp Gln Gly

437

35

40

45

Ser Lys Ser Leu Phe Leu Leu Ile Ser Tyr Ser Thr Asn Thr Ser Ser
 50 55 60

Asp Asp Phe Pro Lys Leu Met Arg Met Arg
 65 70

<210> 355
 <211> 535
 <212> PRT
 <213> Homo sapien

<400> 355

Met Pro Gly Trp Ile Phe Ser Val Gly Ser Ser Ile Ala Arg Arg Ala
 1 5 10 15

Phe Leu Thr Trp Gln Lys Gln Ala His Gly Pro Leu Pro Leu Glu Cys
 20 25 30

Ile Cys Leu Thr Cys Leu Gly Thr Ala Val Gln Glu His Leu Val Trp
 35 40 45

Pro Gly Gly Trp Glu Gly Thr Thr Cys Asn Ile Ala Arg Asn Ser Ser
 50 55 60

Cys Leu Pro Asn Pro Cys His Asn Gly Gly Thr Cys Val Val Asn Gly
 65 70 75 80

Glu Ser Phe Thr Cys Val Cys Lys Glu Gly Trp Glu Gly Pro Ile Cys
 85 90 95

Ala Gln Asn Thr Asn Asp Cys Ser Pro His Pro Cys Tyr Asn Ser Gly
 100 105 110

Thr Cys Val Asp Gly Asp Asn Trp Tyr Arg Cys Glu Cys Ala Pro Gly
 115 120 125

Phe Ala Gly Pro Asp Cys Arg Ile Asn Ile Asn Glu Cys Gln Ser Ser
 130 135 140

Pro Cys Ala Phe Gly Ala Thr Cys Val Asp Glu Ile Asn Gly Tyr Arg
 145 150 155 160

Cys Val Cys Pro Pro Gly His Ser Gly Ala Lys Cys Gln Glu Val Ser
 165 170 175

438

Gly Arg Pro Cys Ile Thr Met Gly Ser Val Ile Pro Asp Gly Ala Lys
 180 185 190

Trp Asp Asp Asp Cys Asn Thr Cys Gln Cys Leu Asn Gly Arg Ile Ala
 195 200 205

Cys Ser Lys Val Trp Cys Gly Pro Arg Pro Cys Leu Leu His Lys Gly
 210 215 220

His Ser Glu Cys Pro Ser Gly Gln Ser Cys Ile Pro Ile Leu Asp Asp
 225 230 235 240

Gln Cys Phe Val His Pro Cys Thr Gly Val Gly Glu Cys Arg Ser Ser
 245 250 255

Ser Leu Gln Pro Val Lys Thr Lys Cys Thr Ser Asp Ser Tyr Tyr Gln
 260 265 270

Asp Asn Cys Ala Asn Ile Thr Phe Thr Phe Asn Lys Glu Met Met Ser
 275 280 285

Pro Gly Leu Thr Thr Glu His Ile Cys Ser Glu Leu Arg Asn Leu Asn
 290 295 300

Ile Leu Lys Asn Val Ser Ala Glu Tyr Ser Ile Tyr Ile Ala Cys Glu
 305 310 315 320

Pro Ser Pro Ser Ala Asn Asn Glu Ile His Val Ala Ile Ser Ala Glu
 325 330 335

Asp Ile Arg Asp Asp Gly Asn Pro Ile Lys Glu Ile Thr Asp Lys Ile
 340 345 350

Ile Asp Leu Val Ser Lys Arg Asp Gly Asn Ser Ser Leu Ile Ala Ala
 355 360 365

Val Ala Glu Val Arg Val Gln Arg Arg Pro Leu Lys Asn Arg Thr Asp
 370 375 380

Phe Leu Val Pro Leu Leu Ser Ser Val Leu Thr Val Ala Trp Ile Cys
 385 390 395 400

Cys Leu Val Thr Ala Phe Tyr Trp Cys Leu Arg Lys Arg Arg Lys Pro
 405 410 415

439

Gly Ser His Thr His Ser Ala Ser Glu Asp Asn Thr Thr Asn Asn Val
 420 425 430

Arg Glu Gln Leu Asn Gln Ile Lys Asn Pro Ile Glu Lys His Gly Ala
 435 440 445

Asn Thr Val Pro Ile Lys Asp Tyr Glu Asn Lys Asn Ser Lys Met Ser
 450 455 460

Lys Ile Arg Thr His Asn Ser Glu Val Glu Glu Asp Asp Met Asp Lys
 465 470 475 480

His Gln Gln Lys Ala Arg Phe Ala Lys Gln Pro Ala Tyr Thr Leu Val
 485 490 495

Asp Arg Glu Glu Lys Pro Pro Asn Gly Thr Pro Thr Lys His Pro Asn
 500 505 510

Trp Thr Asn Lys Gln Asp Asn Arg Asp Leu Glu Ser Ala Gln Ser Leu
 515 520 525

Asn Arg Met Glu Tyr Ile Val
 530 535

<210> 356
 <211> 209
 <212> PRT
 <213> Homo sapien

<400> 356

Met Leu Tyr Ile Tyr Gln His Thr Thr Ser Ala Ser Asn Lys Lys Glu
 1 5 10 15

Leu Glu Leu Asp Ile Cys Gln Arg Leu Pro Glu Ile Arg Trp Lys Leu
 20 25 30

Phe Leu Leu Ile Phe Leu Ile Arg Phe Tyr Met Arg Thr Asn Pro Phe
 35 40 45

Tyr Pro Glu Val Glu Leu Asn Phe Ile Ser Val Phe Trp Pro Gln Leu
 50 55 60

Pro Asn Gly Leu Glu Ala Ala Tyr Glu Phe Ala Asp Arg Asp Glu Val
 65 70 75 80

Arg Phe Phe Lys Gly Asn Lys Tyr Trp Ala Val Gln Gly Gln Asn Val
 85 90 95

440

Leu His Gly Tyr Pro Lys Asp Ile Tyr Ser Ser Phe Gly Phe Pro Arg
 100 105 110

Thr Val Lys His Ile Asp Ala Ala Leu Ser Glu Glu Asn Thr Gly Lys
 115 120 125

Thr Tyr Phe Phe Val Ala Asn Lys Tyr Trp Arg Tyr Asp Glu Tyr Lys
 130 135 140

Arg Ser Met Asp Pro Gly Tyr Pro Lys Met Ile Ala His Asp Phe Pro
 145 150 155 160

Gly Ile Gly His Lys Val Asp Ala Val Phe Met Lys Asp Gly Phe Phe
 165 170 175

Tyr Phe Phe His Gly Thr Arg Gln Tyr Lys Phe Asp Pro Lys Thr Lys
 180 185 190

Arg Ile Leu Thr Leu Gln Lys Ala Asn Ser Trp Phe Asn Cys Arg Lys
 195 200 205

Asn

<210> 357
 <211> 640
 <212> PRT
 <213> Homo sapien

<400> 357

Met Lys Gly His Arg Gly Phe Asp Gly Arg Asn Gly Glu Lys Gly Glu
 1 5 10 15

Thr Gly Ala Pro Gly Leu Lys Gly Glu Asn Gly Leu Pro Gly Glu Asn
 20 25 30

Gly Ala Pro Gly Pro Met Gly Pro Arg Gly Ala Pro Gly Glu Arg Gly
 35 40 45

Arg Pro Gly Leu Pro Gly Ala Ala Gly Ala Arg Gly Asn Asp Gly Ala
 50 55 60

Arg Gly Ser Asp Gly Gln Pro Gly Pro Pro Gly Pro Pro Gly Thr Ala
 65 70 75 80

441

Gly Phe Pro Gly Ser Pro Gly Ala Lys Gly Glu Val Gly Pro Ala Gly
 85 90 95

Ser Pro Gly Ser Asn Gly Ala Pro Gly Gln Arg Gly Glu Pro Gly Pro
 100 105 110

Gln Gly His Ala Gly Ala Gln Gly Pro Pro Gly Pro Pro Gly Ile Asn
 115 120 125

Gly Ser Pro Gly Gly Lys Gly Glu Met Gly Pro Ala Gly Ile Pro Gly
 130 135 140

Ala Pro Gly Leu Met Gly Ala Arg Gly Pro Pro Gly Pro Ala Gly Ala
 145 150 155 160

Asn Gly Ala Pro Gly Leu Arg Gly Gly Ala Gly Glu Pro Gly Lys Asn
 165 170 175

Gly Ala Lys Gly Glu Pro Gly Pro Arg Gly Glu Arg Gly Glu Ala Gly
 180 185 190

Ile Pro Gly Val Pro Gly Ala Lys Gly Glu Asp Gly Lys Asp Gly Ser
 195 200 205

Pro Gly Glu Pro Gly Ala Asn Gly Leu Pro Gly Ala Ala Gly Glu Arg
 210 215 220

Gly Ala Pro Gly Phe Arg Gly Pro Ala Gly Pro Asn Gly Ile Pro Gly
 225 230 235 240

Glu Lys Gly Pro Ala Gly Glu Arg Gly Ala Pro Gly Pro Ala Gly Pro
 245 250 255

Arg Gly Ala Ala Gly Glu Pro Gly Arg Asp Gly Val Pro Gly Gly Pro
 260 265 270

Gly Met Arg Gly Met Pro Gly Ser Pro Gly Gly Pro Gly Ser Asp Gly
 275 280 285

Lys Pro Gly Pro Pro Gly Ser Gln Gly Glu Ser Gly Arg Pro Gly Pro
 290 295 300

Pro Gly Pro Ser Gly Pro Arg Gly Gln Pro Gly Val Met Gly Phe Pro
 305 310 315 320

Gly Pro Lys Gly Asn Asp Gly Ala Pro Gly Lys Asn Gly Glu Arg Gly

442

325 330 335

Gly Pro Gly Gly Pro Gly Pro Gln Gly Pro Pro Gly Lys Asn Gly Glu
 340 345 350

Thr Gly Pro Gln Gly Pro Pro Gly Pro Thr Gly Pro Gly Gly Asp Lys
 355 360 365

Gly Asp Thr Gly Pro Pro Gly Pro Gln Gly Leu Gln Gly Leu Pro Gly
 370 375 380

Thr Gly Gly Pro Pro Gly Glu Asn Gly Lys Pro Gly Glu Pro Gly Pro
 385 390 395 400

Lys Gly Asp Ala Gly Ala Pro Gly Ala Pro Gly Gly Lys Gly Asp Ala
 405 410 415

Gly Ala Pro Gly Glu Arg Gly Pro Pro Gly Leu Ala Gly Ala Pro Gly
 420 425 430

Leu Arg Gly Gly Ala Gly Pro Pro Gly Pro Glu Gly Gly Lys Gly Ala
 435 440 445

Ala Gly Pro Pro Gly Pro Pro Gly Ala Ala Gly Thr Pro Gly Leu Gln
 450 455 460

Gly Met Pro Gly Glu Arg Gly Gly Leu Gly Ser Pro Trp Ser Ser Gln
 465 470 475 480

Arg Trp Phe Arg Leu Gln Leu Pro Ala Pro Ala Thr Ser Arg Glu Gly
 485 490 495

Ser Arg Gly Gly Arg Tyr Tyr Arg Ala Asp Asp Ala Asn Val Val Arg
 500 505 510

Asp Arg Asp Leu Glu Val Asp Thr Thr Leu Lys Ser Leu Ser Gln Gln
 515 520 525

Ile Glu Asn Ile Arg Ser Pro Glu Gly Ser Arg Lys Asn Pro Ala Arg
 530 535 540

Thr Cys Arg Asp Leu Lys Met Cys His Ser Asp Trp Lys Ser Gly Glu
 545 550 555 560

Tyr Trp Ile Asp Pro Asn Gln Gly Cys Asn Leu Asp Ala Ile Lys Val
 565 570 575

443

Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Val Tyr Pro Thr Gln Pro
 580 585 590

Ser Val Ala Gln Lys Asn Trp Tyr Ile Asn Lys Asn Pro Lys Asp Lys
 595 600 605

Arg His Val Trp Phe Gly Glu Ser Met Thr Asp Gly Ile Pro Phe Gln
 610 615 620

Phe Gly Gly Gln Gly Phe Asp Pro Ser Asp Val Ala Ile Gln Leu Thr
 625 630 635 640

<210> 358
 <211> 567
 <212> PRT
 <213> Homo sapien

<400> 358

Gln Gly Pro Pro Gly Glu Pro Gly Gln Ala Gly Pro Ser Gly Pro Pro
 1 5 10 15

Gly Pro Pro Gly Ala Ile Gly Pro Ser Gly Pro Ala Gly Lys Asp Gly
 20 25 30

Glu Ser Gly Arg Pro Gly Arg Pro Gly Glu Arg Gly Leu Pro Gly Pro
 35 40 45

Pro Gly Ile Lys Gly Pro Ala Gly Ile Pro Gly Phe Pro Gly Met Lys
 50 55 60

Gly His Arg Gly Phe Asp Gly Arg Asn Gly Glu Lys Gly Glu Thr Gly
 65 70 75 80

Ala Pro Gly Leu Lys Gly Glu Asn Gly Leu Pro Gly Glu Asn Gly Ala
 85 90 95

Pro Gly Pro Met Gly Pro Arg Gly Ala Pro Gly Glu Arg Gly Arg Pro
 100 105 110

Gly Leu Pro Gly Ala Ala Gly Ala Arg Gly Asn Asp Gly Ala Arg Gly
 115 120 125

Ser Asp Gly Gln Pro Gly Pro Pro Gly Pro Pro Gly Thr Ala Gly Phe
 130 135 140

444

Pro Gly Ser Pro Gly Ala Lys Gly Glu Val Gly Pro Ala Gly Ser Pro
 145 150 155 160

Gly Ser Asn Gly Ala Pro Gly Gln Arg Gly Glu Pro Gly Pro Gln Gly
 165 170 175

His Ala Gly Ala Gln Gly Pro Pro Gly Pro Pro Gly Ile Asn Gly Ser
 180 185 190

Pro Gly Gly Lys Gly Glu Met Gly Pro Ala Gly Ile Pro Gly Ala Pro
 195 200 205

Gly Leu Met Gly Ala Arg Gly Pro Pro Gly Pro Ala Gly Ala Asn Gly
 210 215 220

Ala Pro Gly Leu Arg Gly Gly Ala Gly Glu Pro Gly Lys Asn Gly Ala
 225 230 235 240

Lys Gly Glu Pro Gly Pro Arg Gly Glu Arg Gly Glu Ala Gly Ile Pro
 245 250 255

Gly Val Pro Gly Ala Lys Gly Glu Asp Gly Lys Asp Gly Ser Pro Gly
 260 265 270

Glu Pro Gly Ala Asn Gly Leu Pro Gly Ala Ala Gly Glu Arg Gly Ala
 275 280 285

Pro Gly Phe Arg Gly Pro Ala Gly Pro Asn Gly Ile Pro Gly Glu Lys
 290 295 300

Gly Pro Ala Gly Glu Arg Gly Ala Pro Gly Pro Ala Gly Pro Arg Gly
 305 310 315 320

Ala Ala Gly Glu Pro Gly Arg Asp Gly Val Pro Gly Gly Pro Gly Met
 325 330 335

Arg Gly Met Pro Gly Ser Pro Gly Gly Pro Gly Ser Asp Gly Lys Pro
 340 345 350

Gly Pro Pro Gly Ser Gln Gly Glu Ser Gly Arg Pro Gly Pro Pro Gly
 355 360 365

Pro Ser Gly Pro Arg Gly Gln Pro Gly Val Met Gly Phe Pro Gly Pro
 370 375 380

Lys Gly Asn Asp Gly Ala Pro Gly Lys Asn Gly Glu Arg Gly Gly Pro

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<210> 359
<211> 156
<212> PRT
<213> Homo sapien

<400> 359
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Lys Leu Arg Glu Val Ala Arg Leu Gly Gly Val Val Ser Ile Glu Asp
1 5 10 15

Pro Phe Asp Gln Asp Asp Trp Gly Ala Trp Gln Lys Phe Thr Ala Ser
20 25 30

446

Ala Gly Ile Gln Val Val Gly Asp Asp Leu Thr Val Thr Asn Pro Lys
 35 40 45

Arg Ile Ala Lys Ala Val Asn Glu Lys Ser Cys Asn Cys Leu Leu Leu
 50 55 60

Lys Val Asn Gln Ile Gly Ser Val Thr Glu Ser Leu Gln Ala Cys Lys
 65 70 75 80

Leu Ala Gln Ala Asn Gly Trp Gly Val Met Val Ser His Arg Ser Gly
 85 90 95

Glu Thr Glu Asp Thr Phe Ile Ala Asp Leu Val Val Gly Leu Cys Thr
 100 105 110

Gly Gln Ile Lys Thr Gly Ala Pro Cys Arg Ser Glu Arg Leu Ala Lys
 115 120 125

Tyr Asn Gln Leu Leu Arg Ile Glu Glu Glu Leu Gly Ser Lys Ala Lys
 130 135 140

Phe Ala Gly Arg Asn Phe Arg Asn Pro Leu Ala Lys
 145 150 155

<210> 360
 <211> 108
 <212> PRT
 <213> Homo sapien

<400> 360

Met Ile Arg Leu Ala Ile Trp Gly Arg Val Ser Leu Arg Thr His Ser
 1 5 10 15

Pro Trp Pro Pro Cys Phe Gln Pro His Ser Trp Pro Cys Pro Val Leu
 20 25 30

Ser Ser Leu Gly Gly Thr Cys Thr Cys Arg Phe Met Ala Gly Lys Pro
 35 40 45

Ala Val Thr His Asp Val Asp Gly Ser Ser Ala Pro Pro Cys Gly Gln
 50 55 60

Glu Ser Trp Cys Val Asp Ser Gly Val Pro Glu Pro Ala Cys Ser Gly
 65 70 75 80

Ser Arg Val Pro Met Leu Ala Ser Ile Ala Val Cys Ser Gln Ser Ala

447

85 90 95

Lys Tyr Ser Phe Thr Val Arg Thr Gly Thr Gln Ala
 100 105

<210> 361
 <211> 125
 <212> PRT
 <213> Homo sapien

<400> 361

Gly Met Ser Asp Gly Ser Pro Asp Glu Trp Arg Gly Gly Leu Thr Gly
 1 5 10 15

Ala Cys Pro Gly Gly Gly Lys Trp Val Gly Leu Ala Leu Ala Arg Gln
 20 25 30

Glu Val Gly Ala Gly Gly Ala Asp Ser Ile Cys Gly Tyr Pro Glu His
 35 40 45

Gly Asp Leu Ala Gly Phe Thr Phe Thr Ser Val Ser Ala Ala Pro Ser
 50 55 60

Ala Ser Ser Pro Arg Arg Arg Asp Pro Val Ala Arg Ser Ser Pro Cys
 65 70 75 80

Leu Phe Ser Arg Ser Met Pro Gly Arg Ser Leu Thr Leu Ala Gly Ile
 85 90 95

Pro Leu Leu Arg Leu Ile Ser Ser Pro Gln Lys Val Ser Ser Glu Leu
 100 105 110

Leu Cys Pro Val Val Leu Gln Leu Val Ser Met Arg Pro
 115 120 125

<210> 362
 <211> 25
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic

<400> 362
 gatgtgactc ttgcacatta ttgtgc

<210> 363
 <211> 22
 <212> DNA

448

<213> Artificial sequence

<220>

<223> Synthetic

<400> 363

ctgtctggag cctcctttca tt

22

<210> 364

<211> 24

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic

<400> 364

ttgaaagcat cttacagggc caca

24

<210> 365

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic

<400> 365

aaggcctgct cctcttttag aag

23

<210> 366

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic

<400> 366

gagcaatgat cagaggaccc ttt

23

<210> 367

<211> 25

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic

<400> 367

ccccaagga agcagaaggt gacag

25

<210> 368

<211> 22

<212> DNA

<213> Artificial sequence

449

<220>
<223> Synthetic

<400> 368
tcttggcatg gcttctctag ct 22

<210> 369
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic

<400> 369
gatgtaggga gaggaagagt tctga 25

<210> 370
<211> 27
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic

<400> 370
catccttccc tccccctctg tttctga 27

<210> 371
<211> 23
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic

<400> 371
gccgcaataa ttccatagtc aag 23

<210> 372
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic

<400> 372
caaccagcac tccaatcatg a 21

<210> 373
<211> 30
<212> DNA
<213> Artificial sequence

450

<220>

<223> Synthetic

<400> 373

gcacatctggaa cttctcctgg tctctcagct

30

<210> 374

<211> 25

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic

<400> 374

gagcatcacaca gtctctgaca gttgt

25

<210> 375

<211> 22

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic

<400> 375

tggttaggat ggtctcgatc tc

22

<210> 376

<211> 37

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic

<400> 376

tccttaaagc atttgcaaca gctacagtct aaaattg

37

<210> 377

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic

<400> 377

acattcaggg accaggcttg t

21

<210> 378

<211> 22

<212> DNA

<213> Artificial sequence

<220>

451

<223> Synthetic

<400> 378

ggtcatacag gatcatgtgc at

22

<210> 379

<211> 24

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic

<400> 379

aaactgactc cccacttctt ccca

24

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